

EMC TEST REPORT
for
DIVA Laboratories Ltd.
LCD Monitor
Models No.: ER-192
Brand: AG NEOVO

Prepared for : DIVA Laboratories Ltd.
7F-8, No. 351, Sec. 2, Chung Shan Road,
Chung Ho, Taipei Hsien, Taiwan

Prepared by : Audix Technology Corporation
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei County 24443, Taiwan, R.O.C.

Tel : (02) 2609-9301, 2609-2133
Fax : (02) 2609-9303

File Number : EM961185
Report Number : EM-E960238
Date of Test : Aug. 22 ~ 29, 2007
Date of Report : Sep. 03, 2007

TABLE OF CONTENTS

Description	Page
TEST REPORT VERIFICATION.....	5
1. SUMMARY OF STANDARDS AND RESULTS.....	6
1.1. Description of Standards and Results.....	6
1.2. Description of Compliance Criteria.....	7
2. GENERAL INFORMATION.....	8
2.1. Description of Device (EUT)	8
2.2. Tested Supporting System Details.....	9
2.3. Description of Test Facility	12
2.4. Measurement Uncertainty	13
3. CONDUCTED DISTURBANCE MEASUREMENT.....	14
3.1. Test Equipment.....	14
3.2. Block Diagram of Test Setup	14
3.3. Limits for Conducted Disturbance Voltage (EN 55011, Group I/Class B).....	14
3.4. EUT's Configuration during Compliance Measurement.....	15
3.5. Operating Condition of EUT	15
3.6. Test Procedure	16
3.7. Conducted Disturbance Voltage Measurement Results	17
4. RADIATED DISTURBANCE MEASUREMENT	33
4.1. Test Equipment.....	33
4.2. Block Diagram of Test Setup	33
4.3. Limits for Radiated Disturbance (EN 55011, Group I/Class B)	34
4.4. EUT's Configuration during Compliance Measurement.....	34
4.5. Operating Condition of EUT	34
4.6. Test Procedure	35
4.7. Radiated Disturbance Measurement Results	35
5. DISCONTINUOUS DISTURBANCE EMISSION MEASUREMENT.....	63
5.1. Test Equipment.....	63
5.2. Block Diagram of Test Setup	63
5.3. Limits for Discontinuous Disturbance.....	64
5.4. EUT's Configuration during Compliance Measurement.....	64
5.5. Operating Condition of EUT	64
5.6. Test Procedure	65
5.7. Measurement Results	66
6. POWER HARMONICS AND FLICKER MEASUREMENT	68
6.1. Test Equipment.....	68
6.2. Block Diagram of Test Setup	68
6.3. Test Standard	68
6.4. EUT's Configuration during Compliance Measurement.....	68
6.5. Operating Condition of EUT	69
6.6. Test Results.....	69
7. ELECTROSTATIC DISCHARGE IMMUNITY TEST.....	76
7.1. Test Equipment.....	76
7.2. Block Diagram of Test Setup	76
7.3. Test Standard	77
7.4. Severity Levels and Performance Criterion	77
7.5. EUT's Configuration during Compliance Measurement.....	77
7.6. Operating Condition of EUT	77
7.7. Test Procedure	77
7.8. Test Results.....	78
8. RF FIELD STRENGTH IMMUNITY TEST	80
8.1. Test Equipment.....	80
8.2. Block Diagram of Test Setup	80

8.3.	Test Standard	81
8.4.	Severity Levels and Performance Criterion	81
8.5.	EUT's Configuration during Compliance Measurement	81
8.6.	Operating Condition of EUT	81
8.7.	Test Procedure	82
8.8.	Test Results	82
9.	ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST	84
9.1.	Test Equipment	84
9.2.	Block Diagram of Test Setup	84
9.3.	Test Standard	84
9.4.	Severity Levels and Performance Criterion	84
9.5.	EUT's Configuration during Compliance Measurement	84
9.6.	Operating Condition of EUT	84
9.7.	Test Procedure	85
9.8.	Test Results	85
10.	SURGE IMMUNITY TEST	87
10.1.	Test Equipment	87
10.2.	Block Diagram of Test Setup	87
10.3.	Test Standard	87
10.4.	Severity Levels and Performance Criterion	87
10.5.	EUT's Configuration during Compliance Measurement	87
10.6.	Operating Condition of EUT	87
10.7.	Test Procedure	88
10.8.	Test Results	88
11.	CONDUCTED DISTURBANCE IMMUNITY TEST	90
11.1.	Test Equipment	90
11.2.	Block Diagram of Test Setup	90
11.3.	Test Standard	91
11.4.	Severity Levels and Performance Criterion	91
11.5.	EUT's Configuration during Compliance Measurement	91
11.6.	Operating Condition of EUT	91
11.7.	Test Procedure	91
11.8.	Test Results	92
12.	POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST	94
12.1.	Test Equipment	94
12.2.	Block Diagram of Test Setup	94
12.3.	Test Standard	94
12.4.	Severity Levels and Performance Criterion	94
12.5.	EUT's Configuration during Compliance Measurement	94
12.6.	Operating Condition of EUT	94
12.7.	Test Procedure	95
12.8.	Test Results	95
13.	VOLTAGE DIPS AND INTERRUPTIONS IMMUNITY TEST	97
13.1.	Test Equipment	97
13.2.	Block Diagram of Test Setup	97
13.3.	Test Standard	97
13.4.	Severity Levels and Performance Criterion	97
13.5.	EUT's Configuration during Compliance Measurement	98
13.6.	Operating Condition of EUT	98
13.7.	Test Procedure	98
13.8.	Test Results	99
14.	PHOTOGRAPHS	101
14.1.	Photos of Conducted Disturbance Measurement	101
14.2.	Photos of Radiated Disturbance Measurement at Semi-Anechoic Chamber	103
14.3.	Photos of Radiated Disturbance Measurement at Open Area Test Site	105
14.4.	Photos of Discontinuous Disturbance Emission Measurement	109
14.5.	Photos of Harmonic and Voltage Fluctuations/Flicker Emission Measurement	111
14.6.	Photos of Electrostatic Discharge Immunity Test	112
14.7.	Photos of RF Field Strength Immunity Test	116

14.8. Photos of Electrical Fast Transient/Burst Immunity Test.....	120
14.9. Photos of Surge Immunity Test	121
14.10. Photos of Conducted Disturbance Immunity Test	122
14.11. Photos of Power Frequency Magnetic Field Immunity Test	125
14.12. Photos of Voltage Dips and Interruptions Immunity Test.....	126

APPENDIX (Photos of EUT)

TEST REPORT VERIFICATION

Applicant : DIVA Laboratories Ltd.
 Manufacturer : DIVA Laboratories Ltd.
 EUT Description : LCD Monitor
 (A) MODEL NO. : ER-192
 (B) BRAND : AG NEOVO
 (C) SERIAL NO. : N/A
 (D) POWER SUPPLY : DC 24V
 (E) TEST VOLTAGE : AC 230V, 50Hz

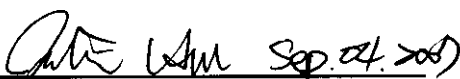
Measurement Standard Used:

EN 60601-1-2/2001+A1/2006: Electromagnetic Compatibility
 Emission: EN 55011/1998 +A1/1999 +A2/2002 Class B,
 EN 55014-1/2000 +A1/2001+A2/2002
 【Only discontinuous disturbance measurement was performed】
 EN 61000-3-2/2000 +A2/2005 and EN 61000-3-3/1995+ A1/2001+ A2/2005
 Immunity: IEC 61000-4-2/2001, IEC 61000-4-3/2006, IEC 61000-4-4/2006,
 IEC 61000-4-5/2005, IEC 61000-4-6/2006, IEC 61000-4-8/2001,
 IEC 61000-4-11/2004


The device described above was tested by Audix Technology Corporation determine the maximum emission levels emanating from the device and the severity levels of the device can endure and its compliance criterion. The measurement results are contained in this test report and Audix Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the EN 60601-1-2 official requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Audix Technology Corporation.

Date of Test : Aug. 22 ~ 29, 2007

Prepared by :  Sep. 24. 2007
 (Julie Hsu/Assistant Administrator)

Test Engineer :  Sep. 4. 2007
 (Alex Deng/Section Manager)

Approved & Authorized Signer :  Sep. 5. 2007
 (Ben Cheng/Section Manager)

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance	EN 55011/1998 +A1/1999 +A2/2002	Group 1, Class B	PASS
Radiated disturbance	EN 55011/1998 +A1/1999 +A2/2002	Group 1, Class B	PASS
Discontinuous disturbance emission	EN 55014-1/2000 +A1/2001 +A2/2002	Section 4.2	PASS
Harmonic distortion	EN 61000-3-2/2000 +A2/2005	Class D	PASS
Voltage fluctuations and flicker	EN 61000-3-3/1995 +A1/2001 +A2/2005	Section 5	PASS
IMMUNITY (EN 60601-1-2)			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	IEC 61000-4-2/2001	Section 36.202.1 j	PASS
Radiated RF electromagnetic fields	IEC 61000-4-3/2006	Section 36.202.1 j	PASS
Electrical fast transients and bursts	IEC 61000-4-4/2006	Section 36.202.1 j	PASS
Surge	IEC 61000-4-5/2005	Section 36.202.1 j	PASS
Conducted disturbances, induced by RF fields	IEC 61000-4-6/2006	Section 36.202.1 j	PASS
Power frequency magnetic fields	IEC 61000-4-8/2001	Section 36.202.1 j	PASS
Voltage dips	IEC 61000-4-11/2004	Section 36.202.1 j	PASS
Voltage interruptions		Section 36.202.1 j	PASS & NOTE
N/A is an abbreviation for Not Applicable.			
NOTE: means a deviation from the requirement of EN 60601-1-2 section 36.202.1 j), but it's allowed.			

1.2. Description of Compliance Criteria

The equipment or system shall be able to provide the essential performance and remain safe. The following degradations associated with essential performance and safety shall not be allowed:

- component failures ;
- changes in programmable parameters;
- reset to factory defaults (manufacturer's presets)
- change of operating mode;
- false alarms;
- cessation or interruption of any intended operating, even if accompanied by an alarm;
- initiation of any unintended operation, including unintended or uncontrolled motion, even if accompanied by an alarm;
- error of a displayed numerical value sufficiently large to affect diagnosis or treatment;
- noise on a waveform in which the noise is indistinguishable from physiologically-produced signals or the noise interferes with interpretation of physiologically-produced signals;
- artefact or distortion in an image in which the artefact is indistinguishable from physiologically-produced signals or the distortion interferes with interpretation of physiologically-produced signals;
- failure of automatic diagnosis or treatment equipment and systems to diagnose or treat, even if accompanied by an alarm.

For equipment or system may exhibit degradation of performance (e.g. deviation from manufacturer's specifications) that does not affect essential performance or safety.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	LCD Monitor
Model Number	:	ER-192
Brand	:	AG NEOVO
Applicant	:	DIVA Laboratories Ltd. 7F-8, No. 351, Sec. 2, Chung Shan Road, Chung Ho, Taipei Hsien, Taiwan
Manufacturer	:	DIVA Laboratories Ltd. 7F-8, No. 351, Sec. 2, Chung Shan Road, Chung Ho, Taipei Hsien, Taiwan
LCD Panel	:	NEC, Model NL128102BC29
Max. Resolution	:	D-Sub: 1600*1200/60Hz, 75kHz DVI: 1280*1024/60Hz, 64kHz
Scanning Frequency	:	Horizontal: 30kHz-80kHz Vertical: 50Hz-85Hz
D-Sub Cable-To PC	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Cable-To PC	:	Shielded, Detachable, 1.8m Bonded a ferrite core
BNC Cable-To DVD	:	Shielded, Detachable, 3m (Video Cable*2+Component Cable*3)
AC Adapter #1	:	AULT, M/N MW116 (Medical Power Supply) Input: 100-240V~, 50-60Hz, 1.0A Output: 24V, 3.75A. Power Cord: Shielded, Undetachable, 3.0m Bonded two ferrite cores
AC Adapter #2	:	LINE Electronics, M/N LE-0312B130W Input: 100-240V~, 50/60Hz, 1.7A Output: 130W Max. Power Cord: Shielded, Undetachable, 1.5m Bonded a ferrite core
AC Power Cord (3 Pin)	:	Non-Shielded, Detachable, 1.8m

Date of Receipt of Sample : Aug. 20, 2007

Date of Test : Aug. 22 ~ 29, 2007

2.2. Tested Supporting System Details

【For Conducted、Radiated、Discontinuous Disturbance Emission Measurements】

2.2.1. PC SYSTEM

Model Number : Aspire E560

Serial Number : PTS570500163804F7B2702

FCC ID : By DoC

BSMI ID : R33142

VGA Card : ASUS, M/N N62000/TD/128M/A,
S/N 62C0AI014563
BSMI ID. R33005

Manufacturer : ACER

RS232 Cable : Shielded, Detachable, 1.8m

Power Cord : Non-Shielded, Detachable, 1.8m

2.2.2. KEYBOARD

Model Number : AS-KBA000

Serial Number : C0602118423

FCC ID : By DoC

BSMI ID : T3A002

Manufacturer : Silitek (Brand: ASUS)

Data Cable : Non-Shielded, Undetachable, 1.8m

2.2.3. DOT MATRIX PRINTER

Model Number : KX-P2135

Serial Number : 8DMCNC02144

FCC ID : ACJ5Z6KX-P2135

BSMI ID : 3872A371

Manufacturer : Matsushita (Brand: Panasonic)

Data Cable : Shielded, Detachable, 1.5m

Power Cord : Non-Shielded, Detachable, 1.8m

2.2.4. MOUSE

Model Number : M-UV69a

Serial Number : HCB60403088

FCC ID : By DoC

BSMI ID : T4A126

Manufacturer : LOGITECH (Brand: ASUS)

Data Cable : Non-Shielded, Undetachable, 1.8m

2.2.5. USB 2.0 STORAGE MEDIA

Model Number	:	USM64U2
Serial Number	:	N/A
FCC ID	:	By DoC
BSMI DoC ID.	:	D33021
Manufacturer	:	SONY
USB Data Cable	:	Shielded, Detachable, 1.8m

2.2.6. MICROPHONE

Model Number	:	HD-303
Serial Number	:	N/A
Manufacturer	:	Multimedia Microphone System
Data Cable	:	Non-Shielded, Undetachable, 2.2m

2.2.7. SPEAKER

Model Number	:	J-008
Serial Number	:	J80547826
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

2.2.8. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08631
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

2.2.9. TRINITRON COLOR VIDEO MONITOR (Link to EUT)

Model Number	:	PVM-14L2
Serial Number	:	2007216
Brand	:	SONY
Manufacturer	:	SONY Corp.
FCC ID	:	By DoC
BSMI ID.	:	T33021
S-Video Cable	:	Shielded, Detachable, 1.0m
Video Cable*2	:	Shielded, Detachable, 1.8m
Component Cable*3	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.5m

2.2.10. DVD PLAYER (Link to EUT)

Model Number	:	DV-S6D
Serial Number	:	TLKR003935TA
Manufacturer	:	Pioneer
S-Video Cable	:	Shielded, Detachable, 1.0m
Power Cord	:	Non-Shielded, Detachable, 2.0m

2.2.11. SIGNAL GENERATOR (Link to EUT)

Model Number	:	LT443D
Serial Number	:	DIVA02730
Manufacturer	:	DIVA
SDI Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.2.12. 75Ω IMPEDANCE (Link to EUT)

Data Cable	:	Shielded, Detachable, 1.8m
------------	---	----------------------------

【For Harmonic, Flicker Measurements and EMS Immunity Tests】

2.2.13. PC SYSTEM

Model Number	:	D530 CMT
Serial Number	:	SGH34105H1
FCC ID	:	By DoC
BSMI ID	:	R33001
VGA Card	:	ASUS, M/N N62000/TD/128M/A, S/N 62C0AI014563 BSMI ID. R33005
Manufacturer	:	HP
RS232 Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.2.14. PS2 KEYBOARD

Model Number	:	SDM4700P
Serial Number	:	B69360HLPPD0TL
FCC ID	:	By DoC
BSMI ID	:	R33018
Manufacturer	:	Samsung (Brand : HP)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

2.2.15. PS2 MOUSE

Model Number	:	M-S69
Serial Number	:	F6AB70S5BOY1NWZ
FCC ID	:	JNZ211443
BSMI ID	:	R41126
Manufacturer	:	HP
Data Cable	:	Non-Shielded, Undetachable, 1.8m

2.2.16. TRINITRON COLOR VIDEO MONITOR (Link to EUT)

Model Number	:	PVM-14L2
Serial Number	:	2007216
Brand	:	SONY
Manufacturer	:	SONY Corp.
FCC ID	:	By DoC
BSMI ID.	:	T33021
S-Video Cable	:	Shielded, Detachable, 1.0m
Video Cable*2	:	Shielded, Detachable, 1.8m
Component Cable*3	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.5m

2.2.17. DVD PLAYER (Link to EUT)

Model Number	:	DV-S6D
Serial Number	:	TLKR003935TA
Manufacturer	:	Pioneer
S-Video Cable	:	Shielded, Detachable, 1.0m
Power Cord	:	Non-Shielded, Detachable, 2.0m

2.2.18. SIGNAL GENERATOR (Link to EUT)

Model Number	:	LT443D
Serial Number	:	DIVA02730
Manufacturer	:	DIVA
SDI Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.2.19. 75Ω IMPEDANCE (Link to EUT)

Data Cable	:	Shielded, Detachable, 1.8m
------------	---	----------------------------

2.3. Description of Test Facility

Name of Firm	:	Audix Technology Corporation EMC Department No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei County, Taiwan, R.O.C.
Test Site (C3/R6/AC)	:	No. 3 Shielded Room & No. 6 Open Area Test Site No. 67-4, Tin-Fu Tsun, Lin-Kou, Taipei County, Taiwan, R.O.C. Semi-Anechoic Chamber & Immunity Test Site No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei County, Taiwan, R.O.C.

NVLAP Lab. Code : 200077-0
 (NVLAP is a NATA accredited body under Mutual Recognition Agreement)

DAR-Registration No. : DAT-P-145/03-01

2.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB), (V/m)
Conduction Test	150kHz~30MHz	$\pm 1.73\text{dB}$
Radiation Test (Distance: 3m)	30MHz~300MHz	$\pm 2.91\text{dB}$
	300MHz~1000MHz	$\pm 2.94\text{dB}$
Radiation Test (Distance: 10m)	30MHz~300MHz	$\pm 2.99\text{dB}$
	300MHz~1000MHz	$\pm 2.73\text{dB}$
RF Field Strength Susceptibility Test	80MHz~1000MHz	$\pm 0.84\text{V/m}$

Remark : Uncertainty = $k_{uc}(y)$

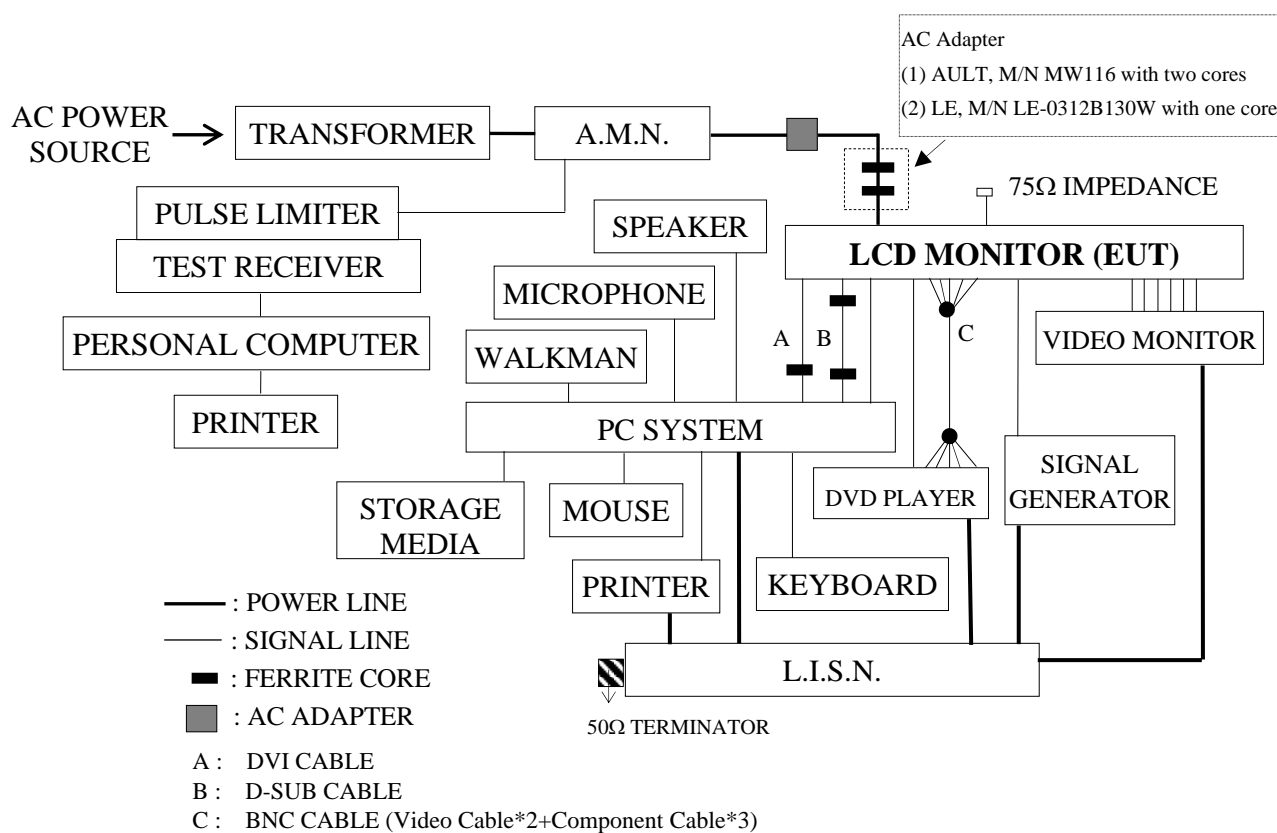
3. CONDUCTED DISTURBANCE MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the conducted disturbance measurement : (No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	Rohde & Schwarz	ESCS 30	100039	Jun.25, 07'	Jun.24, 08'
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Aug.13, 07'	Aug.12, 08'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-10	Jun.06, 07'	Jun.05, 08'
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100041	Mar.10, 07'	Mar.09, 08'

3.2. Block Diagram of Test Setup



3.3. Limits for Conducted Disturbance Voltage (EN 55011, Group I/Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

- Remark: 1. If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.
2. The lower limit applies at the band edges.

3.4. EUT's Configuration during Compliance Measurement

The following equipments was installed on RF LINE VOLTAGE measurement to meet EN 55011 (CISPR Pub.11, Class B) requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. LCD Monitor (EUT)

Model Number	: ER-192
Brand	: AG NEOVO
Serial Number	: N/A
LCD Panel	: NEC, Model NL128102BC29
Max. Resolution	: D-Sub: 1600*1200/60Hz, 75kHz DVI: 1280*1024/60Hz, 64kHz
D-Sub Cable-To PC	: Shielded, Detachable, 1.8m Bonded two ferrite cores
DVI Cable-To PC	: Shielded, Detachable, 1.8m Bonded a ferrite core
BNC Cable-To DVD	: Shielded, Detachable, 3m (Video Cable*2+Component Cable*3)
AC Adapter #1	: AULT, M/N MW116 (Medical Power Supply) Input: 100-240V~, 50-60Hz, 1.0A Output: 24V, 3.75A. Power Cord: Shielded, Undetachable, 1.5m Bonded two ferrite cores
AC Adapter #2	: LINE Electronics, M/N LE-0312B130W Input: 100-240V~, 50/60Hz, 1.7A Output: 130W Max. Power Cord: Shielded, Undetachable, 1.5m Bonded a ferrite core
AC Power Cord	: Non-Shielded, Detachable, 1.8m (3 Pin)

- 3.4.2. Supporting System : As in Section 2.2.
(For Conducted & Radiated Emission Measurements)

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown on 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. The PC system read data from disk.
- 3.5.4. PC system performed the EMI self-test program "H-Win" by windows XP and sent "H" characters to the LCD Monitor (EUT), and then the screen of LCD Monitor (EUT) displayed pattern "H" by EUT's resolution via D-Sub or DVI.
- 3.5.5. DVD Player sent the "Color Bar" image to LCD Monitor (EUT), then the screen of LCD Monitor displayed image via S-Video input or AV input or Component Video input.

- 3.5.6. Signal Generator sent the “Color Bar” image to LCD Monitor (EUT), then the screen of LCD Monitor displayed image via SDI input.
- 3.5.7. The other peripheral devices were drove and operated in turn during all testing.
- 3.5.8. Repeat above procedure from 3.5.3. to 3.5.7.

3.6. Test Procedure

The EUT was put on table which was above the ground by 80cm and AC Adapter's power cord was connected to the AC mains through an Artificial Mains Network (A.M.N.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provided a 50 ohm coupling impedance for the measuring equipment. Both sides of A.C. line were checked to find out the maximum conducted emission according to EN 55011 (CISPR 11) Class B regulations during conducted disturbance measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was pre-scanned with a peak detector.

All the final readings of measurements were with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

3.7. Conducted Disturbance Voltage Measurement Results

PASSED. (All emissions not reported below are too low against the prescribed limits.)

EUT with following test modes were measured during this section testing and selected the **worst test modes (Mode 2, 9, 10, 11)** to read Q.P and Average value, all the test results are listed in next pages.

EUT : LCD Monitor M/N : ER-192

Test Date : Aug. 24, 2007 Temperature : 25 Humidity : 42%

The details of test modes and reference test data are as follows :

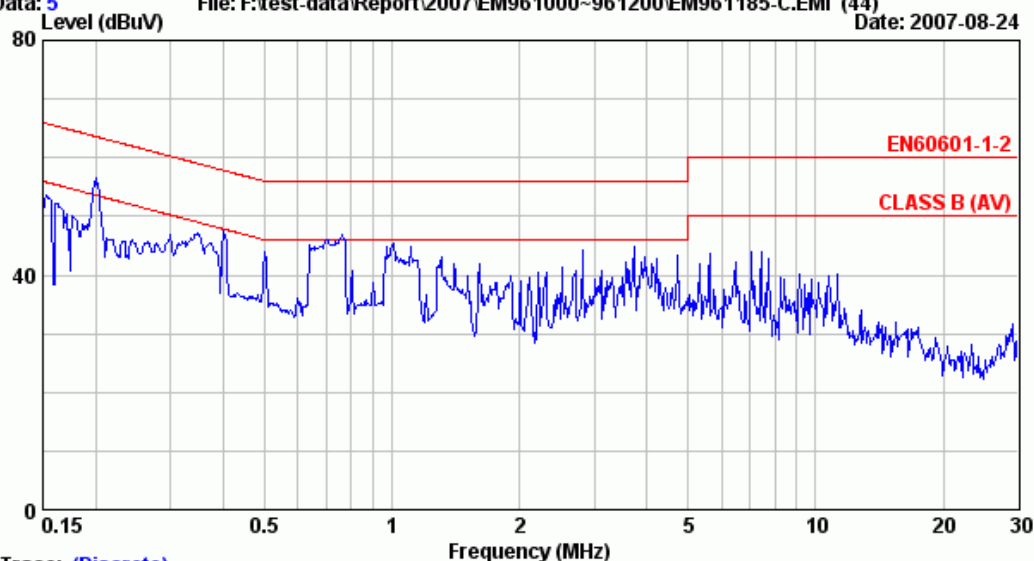
Mode	AC Adapter	Input	Display, Resolution/ Frequency	Reference Test Data No.	
				Neutral	Line
1.	AULT, M/N MW116	D-Sub	H Pattern, 800*600/60Hz	# 5	# 6
*2.		D-Sub	H Pattern, 1280*1024/75Hz	# 2	# 1
3.		D-Sub	H Pattern, 1600*1200/60Hz	# 4	# 3
4.		DVI	H Pattern, 640*480/60Hz	# 8	# 7
5.		DVI	H Pattern, 1024*768/60Hz	# 9	# 10
6.		DVI	H Pattern, 1280*1024/60Hz	# 12	# 11
7.		AV IN	Color Bar Image	# 16	# 15
8.		S IN	Color Bar Image	# 13	# 14
*9.		Component Video IN	Color Bar Image	# 17	# 18
*10.		SDI IN	Color Bar Image	# 20	# 19
*11.	LE, M/N LE-0312B130W	SDI IN	Color Bar Image	# 21	# 22

(* worst test modes)



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

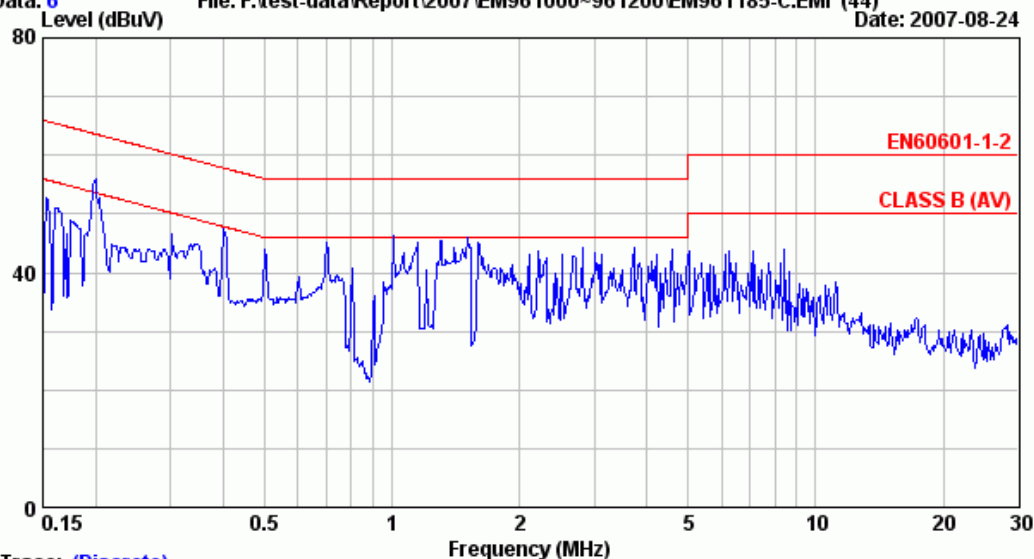
Data: 5 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 5
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 800*600/60Hz (D-SUB)		

Data: 6 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



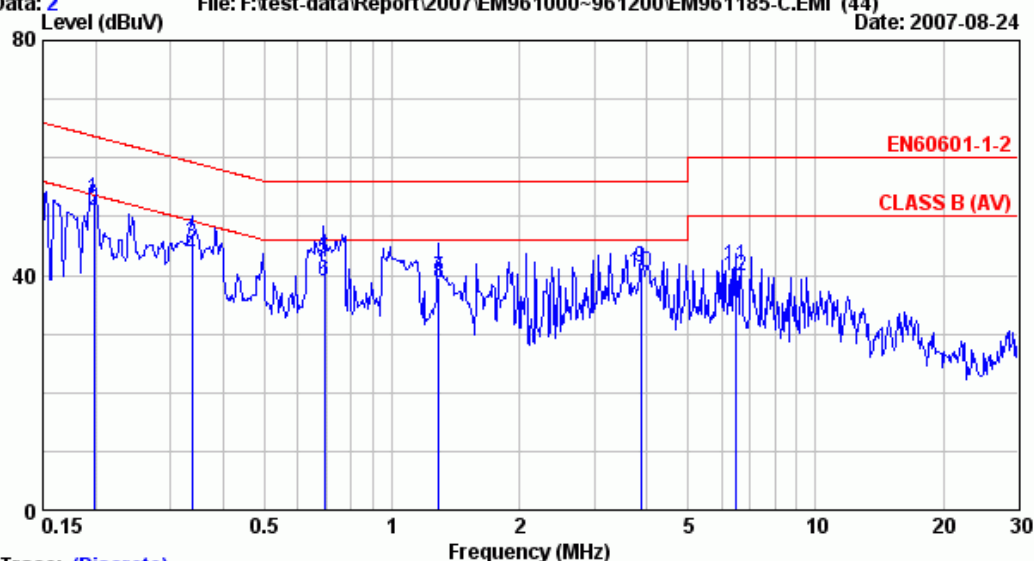
Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 6
Condition	: KNW-244C	Phase	: LINE
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 800*600/60Hz (D-SUB)		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 2 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site : NO.3 Shielded Room Data : 2
Condition : KNW-244C Phase : NEUTRAL
Limit : EN60601-1-2
Env. / Ins. : 25°C/42% ESCS30 Engineer: Gary-Lin
EUT : LCD Monitor M/N:ER-192 (Adapter AULT)
Power Rating : 230Vac/50Hz
Test Mode : 1280*1024/75Hz (D-SUB)

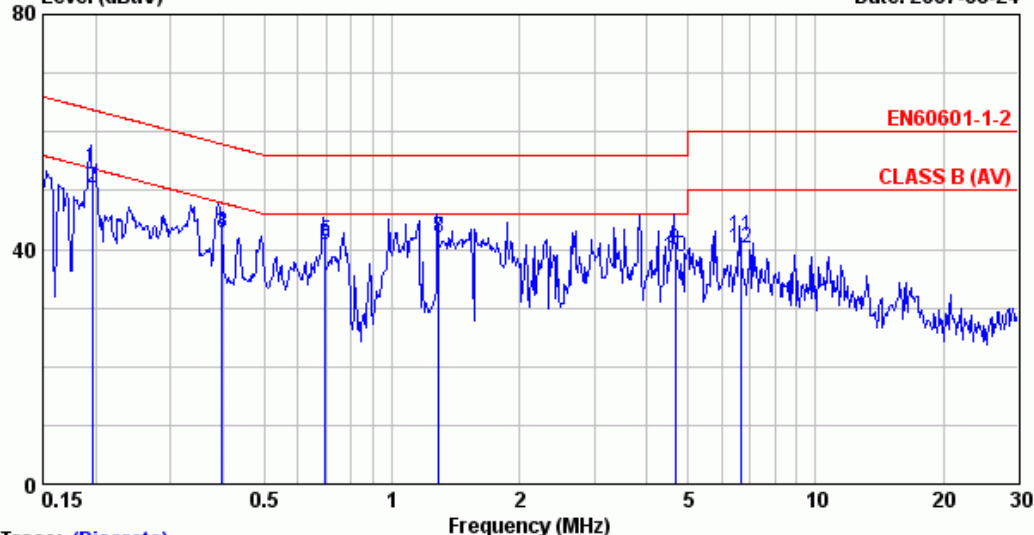
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.198	0.10	0.20	52.82	53.12	63.69	10.57	QP
2	0.198	0.10	0.20	50.63	50.93	53.69	2.76	AVERAGE
3	0.338	0.10	0.20	45.19	45.49	59.25	13.76	QP
4	0.338	0.10	0.20	43.20	43.50	49.25	5.75	AVERAGE
5	0.693	0.10	0.20	42.59	42.89	56.00	13.11	QP
6	0.693	0.10	0.20	38.68	38.98	46.00	7.02	AVERAGE
7	1.290	0.14	0.40	39.11	39.65	56.00	16.35	QP
8	1.290	0.14	0.40	38.29	38.83	46.00	7.17	AVERAGE
9	3.875	0.20	0.40	40.72	41.32	56.00	14.68	QP
10	3.875	0.20	0.40	39.92	40.52	46.00	5.48	AVERAGE
11	6.461	0.25	0.60	40.86	41.71	60.00	18.29	QP
12	6.461	0.25	0.60	38.88	39.73	50.00	10.27	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 1 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site : NO.3 Shielded Room Data : 1
Condition : KNW-244C Phase : LINE
Limit : EN60601-1-2
Env. / Ins. : 25°C/42% ESCS30 Engineer: Gary-Lin
EUT : LCD Monitor M/N:ER-192 (Adapter AULT)
Power Rating : 230Vac/50Hz
Test Mode : 1280*1024/75Hz (D-SUB)

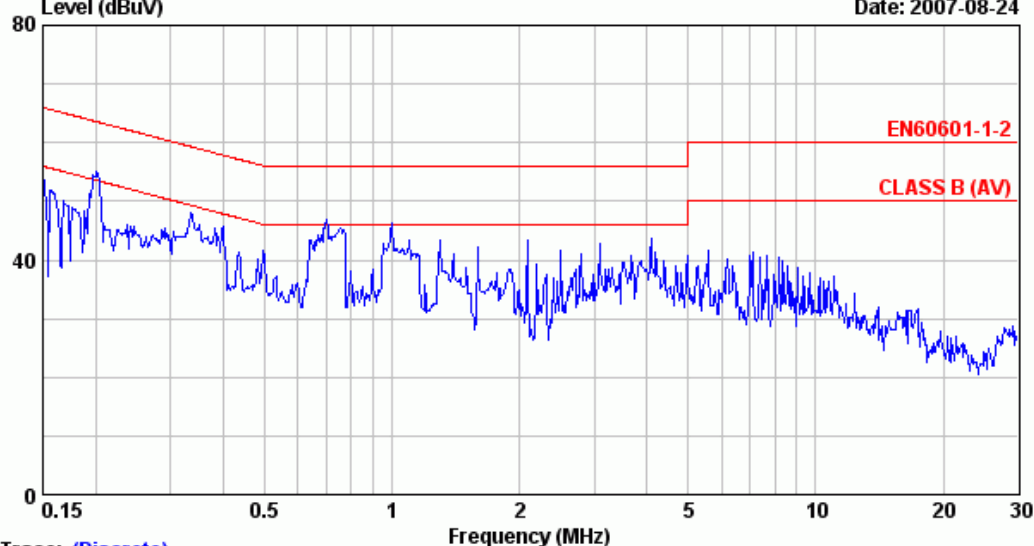
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.196	0.10	0.20	53.71	54.01	63.76	9.75	QP
2	0.196	0.10	0.20	50.00	50.30	53.76	3.46	AVERAGE
3	0.397	0.10	0.20	42.54	42.84	57.92	15.08	QP
4	0.397	0.10	0.20	42.53	42.83	47.92	5.09	AVERAGE
5	0.695	0.10	0.20	41.11	41.41	56.00	14.59	QP
6	0.695	0.10	0.20	40.46	40.76	46.00	5.24	AVERAGE
7	1.288	0.10	0.40	41.37	41.87	56.00	14.13	QP
8	1.288	0.10	0.40	41.50	42.00	46.00	4.00	AVERAGE
9	4.659	0.23	0.60	38.88	39.71	56.00	16.29	QP
10	4.659	0.23	0.60	37.99	38.82	46.00	7.18	AVERAGE
11	6.646	0.31	0.60	41.39	42.30	60.00	17.70	QP
12	6.646	0.31	0.60	39.16	40.07	50.00	9.93	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

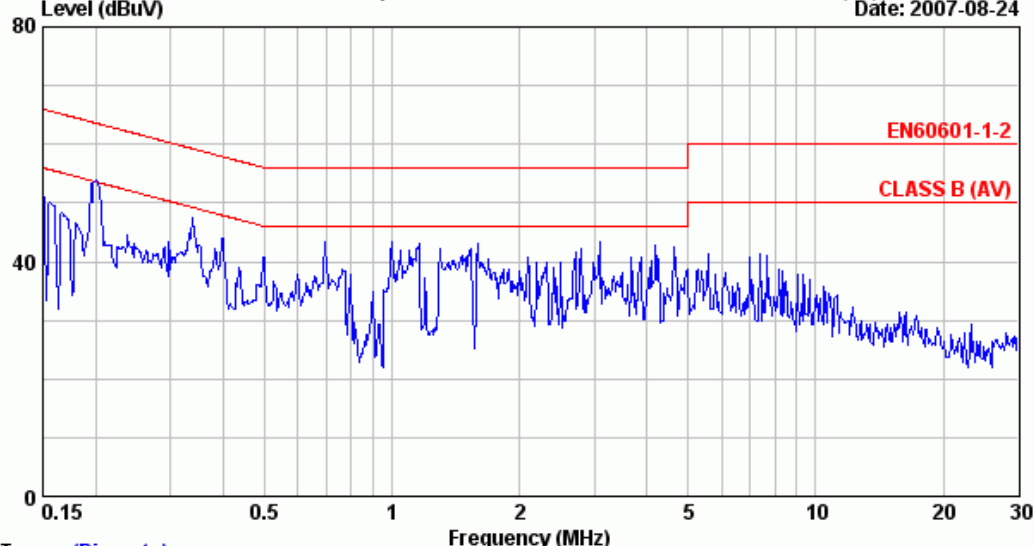
Data: 4 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 4
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1600*1200/60Hz (D-SUB)		

Data: 3 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



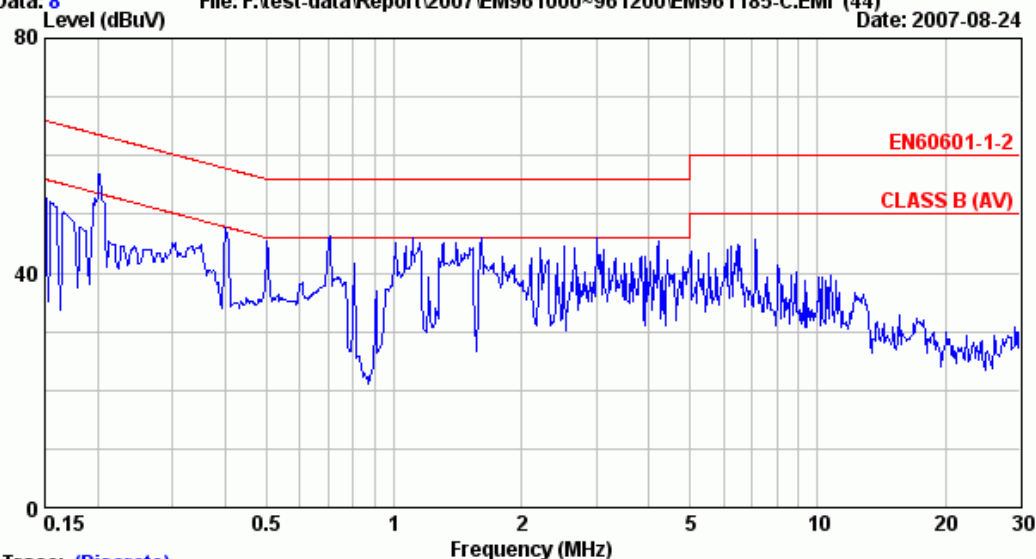
Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 3
Condition	: KNW-244C	Phase	: LINE
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1600*1200/60Hz (D-SUB)		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

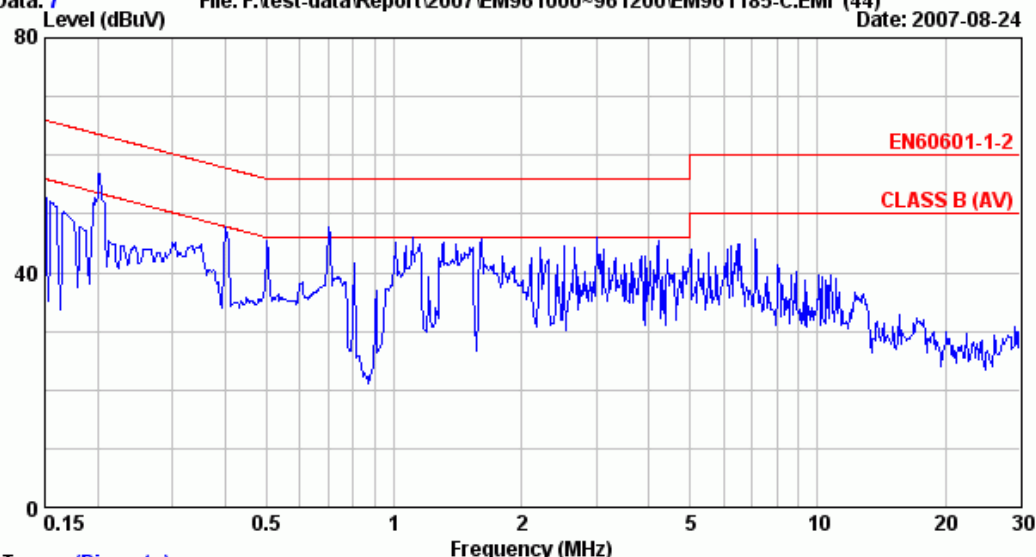
Data: 8 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 8
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 640*480/60Hz (DVI)		

Data: 7 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



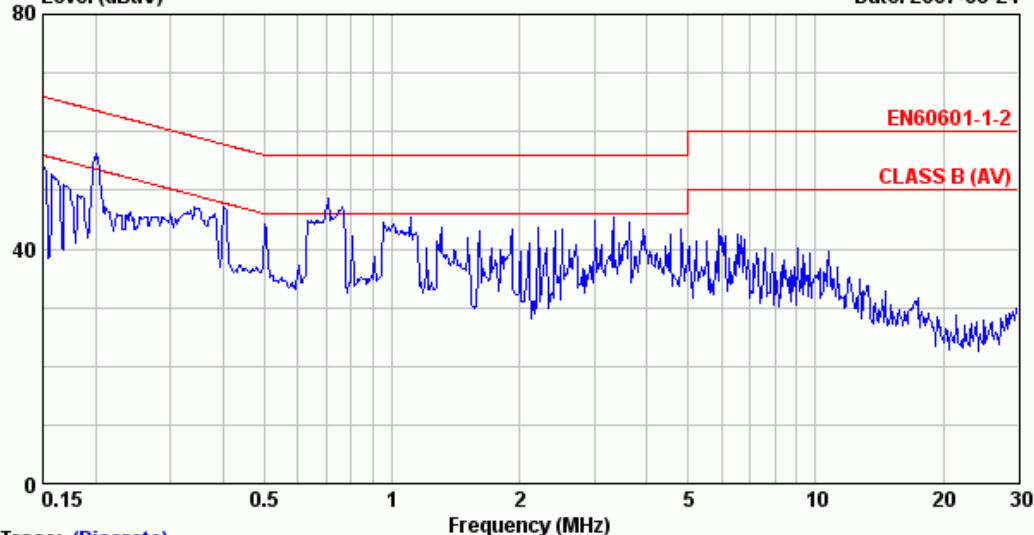
Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 7
Condition	: KNW-244C	Phase	: LINE
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 640*480/60Hz (DVI)		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

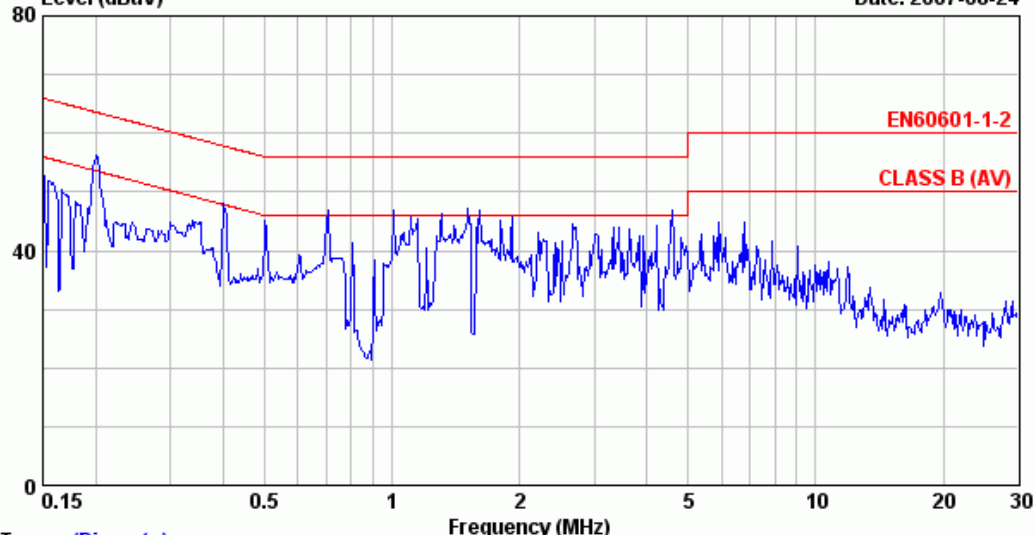
Data: 9 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 9
Condition	: KMW-244C	Phase	: NEUTRAL
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1024*768/60Hz (DVI)		

Data: 10 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



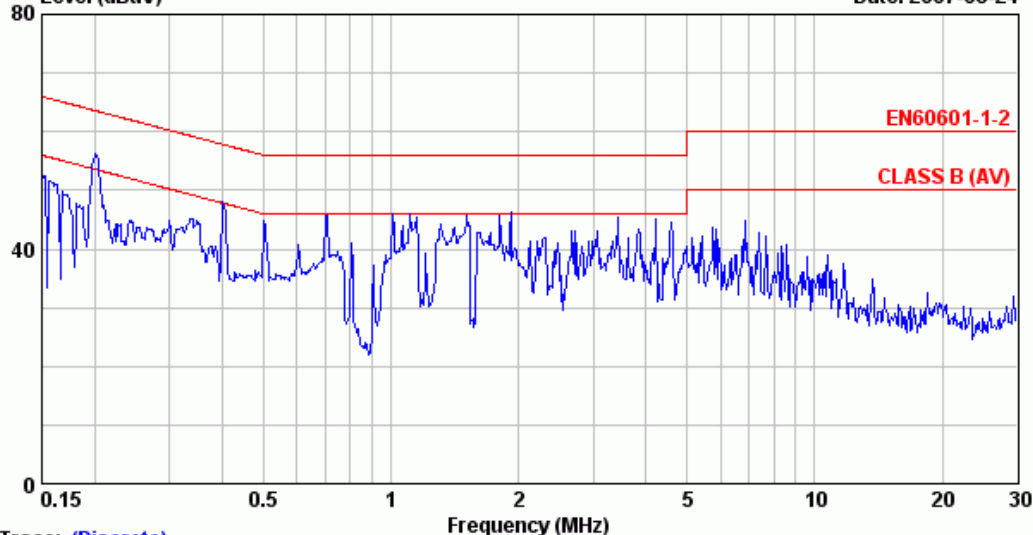
Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 10
Condition	: KMW-244C	Phase	: LINE
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1024*768/60Hz (DVI)		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

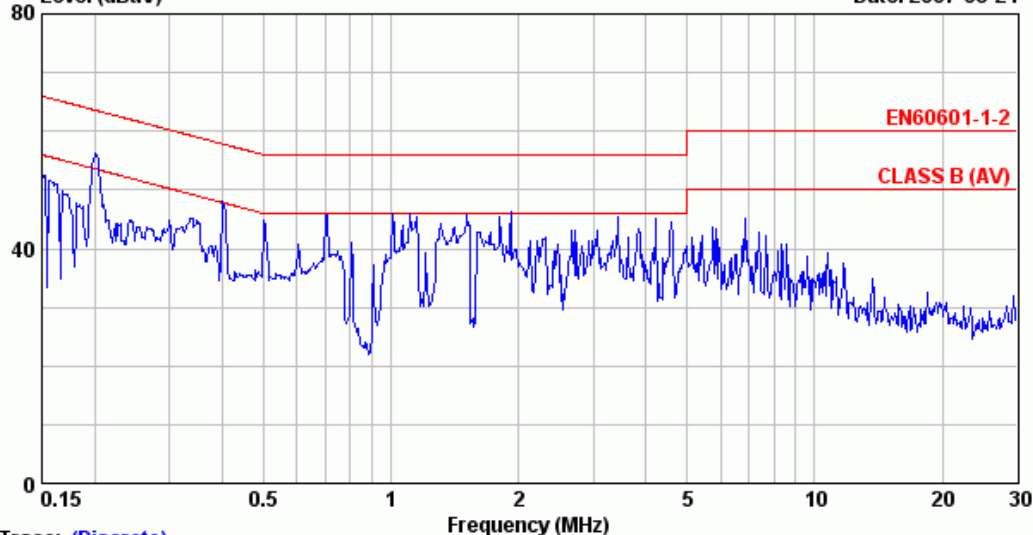
Data: 12 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 12
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1280*1024/60Hz (DVI)		

Data: 11 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



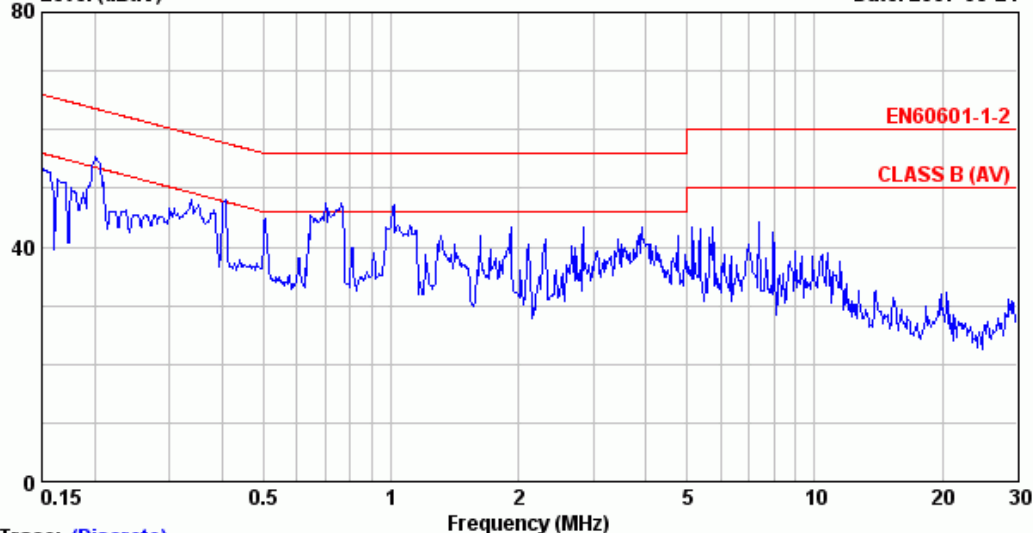
Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 11
Condition	: KNW-244C	Phase	: LINE
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1280*1024/60Hz (DVI)		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

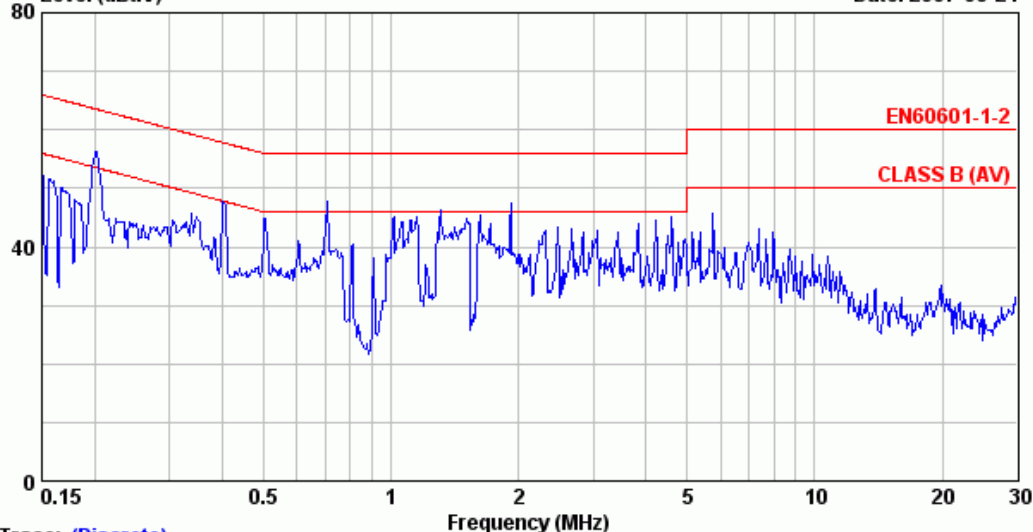
Data: 16 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 16
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: AV IN		

Data: 15 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



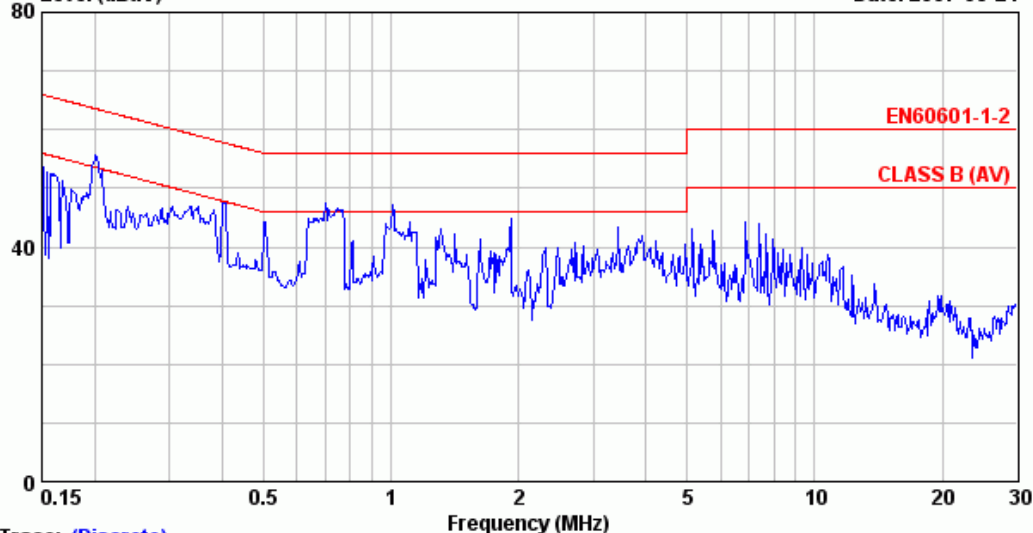
Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 15
Condition	: KNW-244C	Phase	: LINE
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: AV IN		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

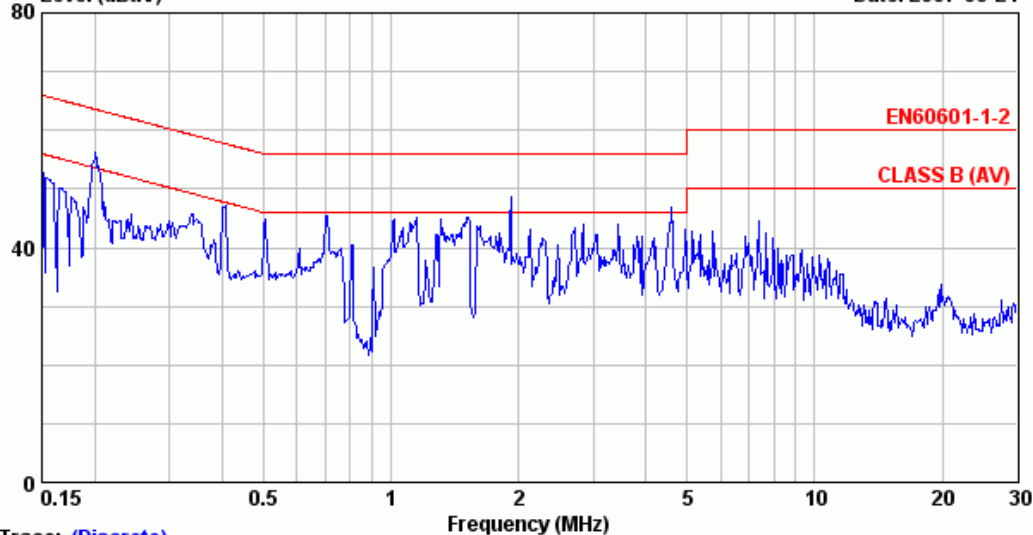
Data: 13 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 13
Condition	: KNW-244C	Phase	: NEUTRAL
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: S IN		

Data: 14 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



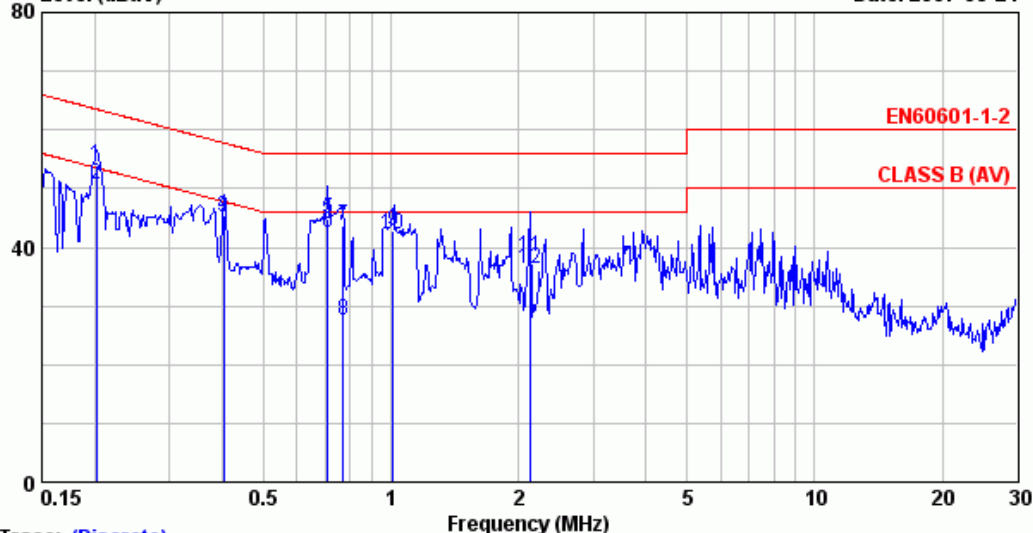
Trace: (Discrete)

Site	: NO.3 Shielded Room	Data	: 14
Condition	: KNW-244C	Phase	: LINE
Limit	: EN60601-1-2		
Env. / Ins.	: 25°C/42% ESCS30	Engineer:	: Gary-Lin
EUT	: LCD Monitor M/N:ER-192 (Adapter AULT)		
Power Rating	: 230Vac/50Hz		
Test Mode	: S IN		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 17 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site : NO.3 Shielded Room Data : 17
Condition : KNW-244C Phase : NEUTRAL
Limit : EN60601-1-2
Env. / Ins. : 25°C/42% ESCS30 Engineer: Gary-Lin
EUT : LCD Monitor M/N:ER-192 (Adapter AULT)
Power Rating : 230Vac/50Hz
Test Mode : COMPONENT IN

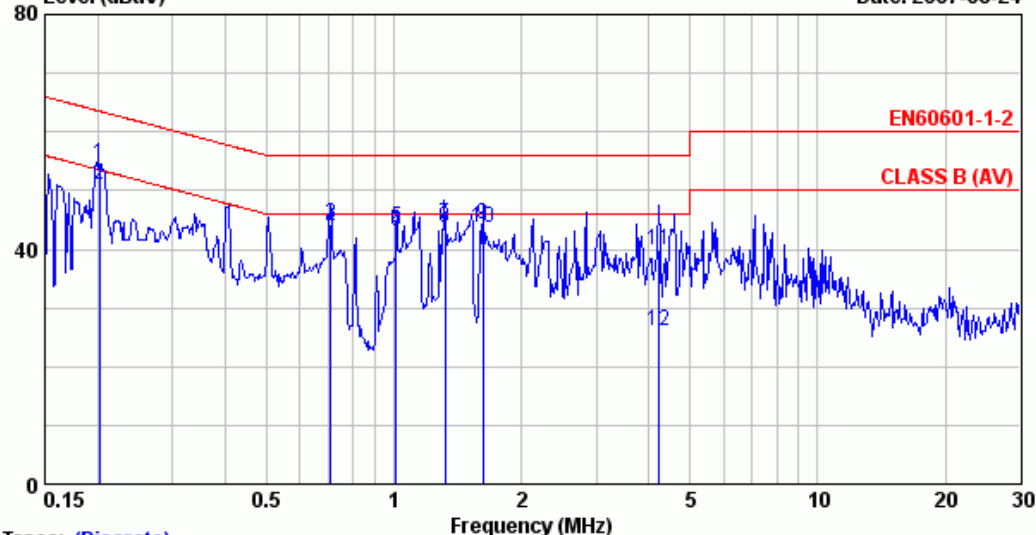
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.202	0.10	0.20	53.61	53.91	63.52	9.61	QP
2	0.202	0.10	0.20	50.36	50.66	53.52	2.86	AVERAGE
3	0.403	0.10	0.20	44.72	45.02	57.79	12.77	QP
4	0.403	0.10	0.20	45.12	45.42	47.79	2.37	AVERAGE
5	0.709	0.10	0.20	44.43	44.73	56.00	11.27	QP
6	0.709	0.10	0.20	42.24	42.54	46.00	3.46	AVERAGE
7	0.771	0.10	0.20	43.42	43.72	56.00	12.28	QP
8	0.771	0.10	0.20	27.34	27.64	46.00	18.36	AVERAGE
9	1.012	0.10	0.40	42.25	42.75	56.00	13.25	QP
10	1.012	0.10	0.40	41.61	42.11	46.00	3.89	AVERAGE
11	2.126	0.20	0.40	37.88	38.48	56.00	17.52	QP
12	2.126	0.20	0.40	35.84	36.44	46.00	9.56	AVERAGE

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 18 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site : NO.3 Shielded Room Data : 18
Condition : KNW-244C Phase : LINE
Limit : EN60601-1-2
Env. / Ins. : 25°C/42% ESCS30 Engineer: Gary-Lin
EUT : LCD Monitor M/N:ER-192 (Adapter AULT)
Power Rating : 230Vac/50Hz
Test Mode : COMPONENT IN

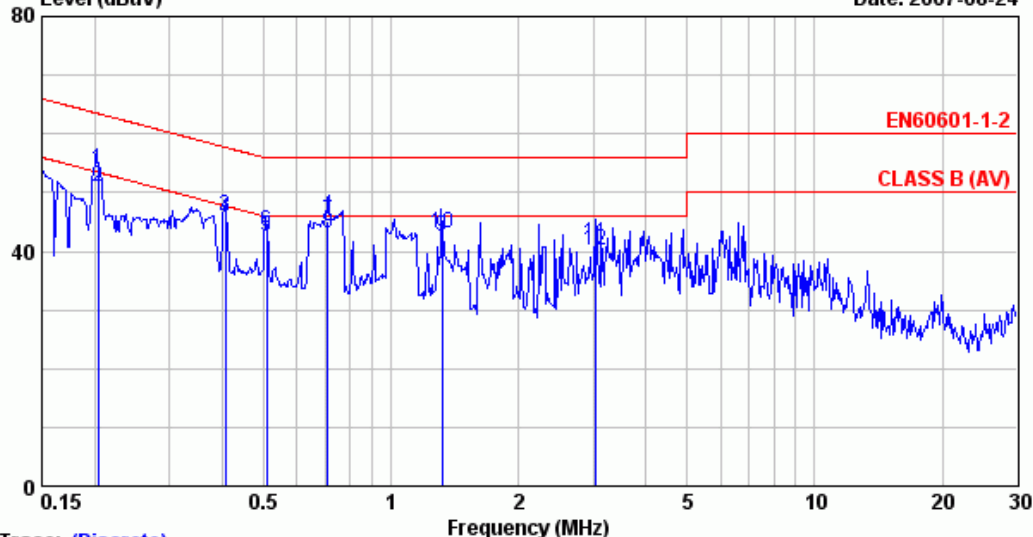
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.202	0.10	0.20	54.32	54.62	63.53	8.91	QP
2	0.202	0.10	0.20	50.73	51.03	53.53	2.50	AVERAGE
3	0.710	0.10	0.20	43.97	44.27	56.00	11.73	QP
4	0.710	0.10	0.20	42.97	43.27	46.00	2.73	AVERAGE
5	1.013	0.10	0.40	43.30	43.80	56.00	12.20	QP
6	1.013	0.10	0.40	42.58	43.08	46.00	2.92	AVERAGE
7	1.318	0.10	0.40	43.74	44.24	56.00	11.76	QP
8	1.318	0.10	0.40	43.02	43.52	46.00	2.48	AVERAGE
9	1.623	0.10	0.40	43.81	44.31	56.00	11.69	QP
10	1.623	0.10	0.40	43.11	43.61	46.00	2.39	AVERAGE
11	4.224	0.21	0.60	39.06	39.87	56.00	16.13	QP
12	4.224	0.21	0.60	25.19	26.00	46.00	20.00	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 20 Level (dBuV) File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site : NO.3 Shielded Room Data : 20
Condition : KNW-244C Phase : NEUTRAL
Limit : EN60601-1-2
Env. / Ins. : 25°C/42% ESCS30 Engineer: Gary-Lin
EUT : LCD Monitor M/N:ER-192 (Adapter AULT)
Power Rating : 230Vac/50Hz
Test Mode : SDI IN

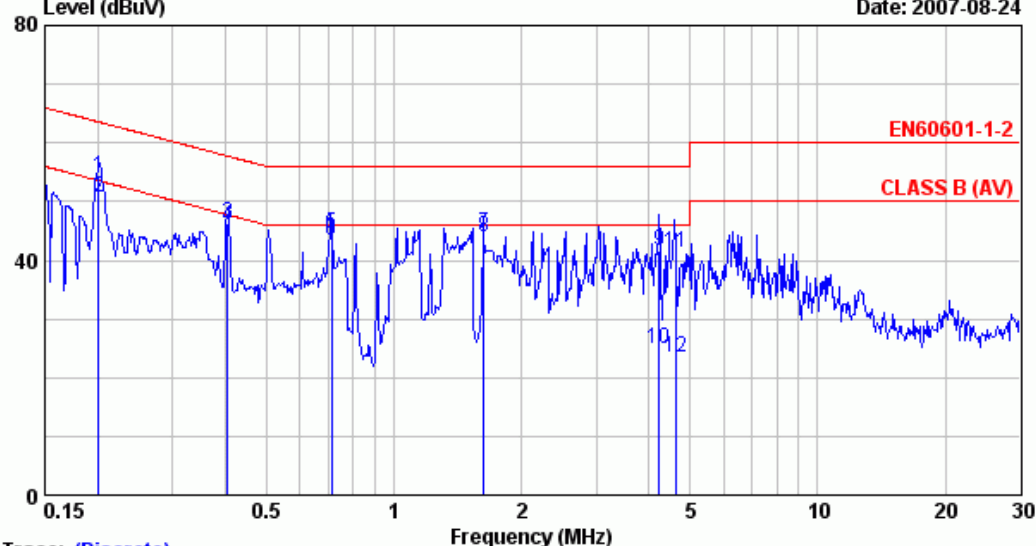
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.203	0.10	0.20	53.75	54.05	63.47	9.42	QP
2	0.203	0.10	0.20	50.73	51.03	53.47	2.44	AVERAGE
3	0.406	0.10	0.20	45.79	46.09	57.73	11.64	QP
4	0.406	0.10	0.20	45.14	45.44	47.73	2.29	AVERAGE
5	0.509	0.10	0.20	42.14	42.44	56.00	13.56	QP
6	0.509	0.10	0.20	43.17	43.47	46.00	2.53	AVERAGE
7	0.711	0.10	0.20	44.88	45.18	56.00	10.82	QP
8	0.711	0.10	0.20	42.72	43.02	46.00	2.98	AVERAGE
9	1.321	0.14	0.40	41.97	42.51	56.00	13.49	QP
10	1.321	0.14	0.40	42.65	43.19	46.00	2.81	AVERAGE
11	3.051	0.20	0.40	40.58	41.18	56.00	14.82	QP
12	3.051	0.20	0.40	39.65	40.25	46.00	5.75	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 19 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site : NO.3 Shielded Room Data : 19
Condition : KNW-244C Phase : LINE
Limit : EN60601-1-2
Env. / Ins. : 25°C/42% ESCS30 Engineer: Gary-Lin
EUT : LCD Monitor M/N:ER-192 (Adapter AULT)
Power Rating : 230Vac/50Hz
Test Mode : SDI IN

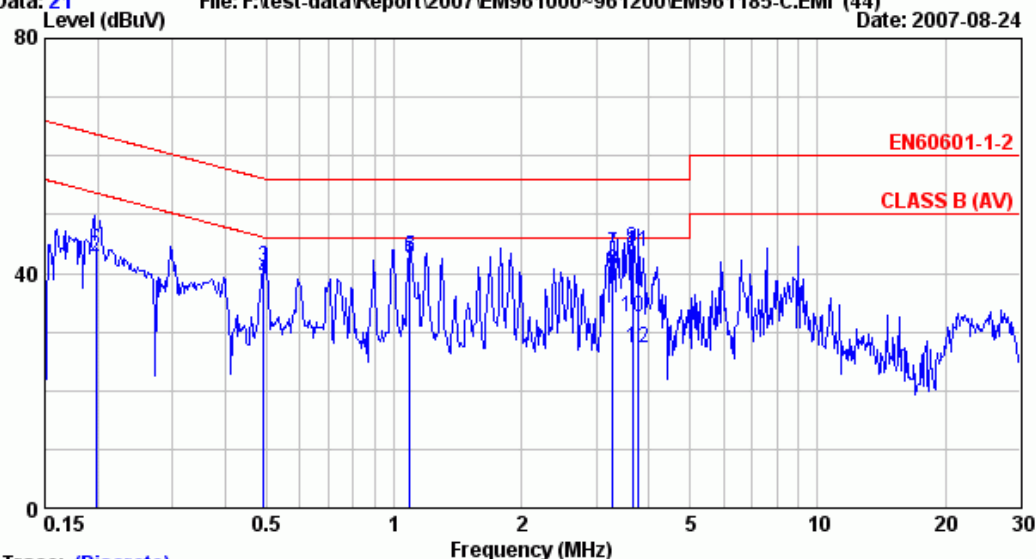
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.201	0.10	0.20	53.89	54.19	63.57	9.38	QP
2	0.201	0.10	0.20	50.35	50.65	53.57	2.92	AVERAGE
3	0.405	0.10	0.20	45.87	46.17	57.75	11.58	QP
4	0.405	0.10	0.20	45.27	45.57	47.75	2.18	AVERAGE
5	0.711	0.10	0.20	44.25	44.55	56.00	11.45	QP
6	0.711	0.10	0.20	43.08	43.38	46.00	2.62	AVERAGE
7	1.626	0.10	0.40	43.98	44.48	56.00	11.52	QP
8	1.626	0.10	0.40	43.33	43.83	46.00	2.17	AVERAGE
9	4.233	0.21	0.60	40.85	41.66	56.00	14.34	QP
10	4.233	0.21	0.60	24.03	24.84	46.00	21.16	AVERAGE
11	4.618	0.23	0.60	40.39	41.22	56.00	14.78	QP
12	4.618	0.23	0.60	22.75	23.58	46.00	22.42	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 21 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



Trace: (Discrete)

Site : NO.3 Shielded Room Data : 21
Condition : KNW-244C Phase : NEUTRAL
Limit : EN60601-1-2
Env. / Ins. : 25°C/42% ESCS30 Engineer: Gary-Lin
EUT : LCD Monitor M/N:ER-192 (Adapter LE)
Power Rating : 230Vac/50Hz
Test Mode : SDI IN

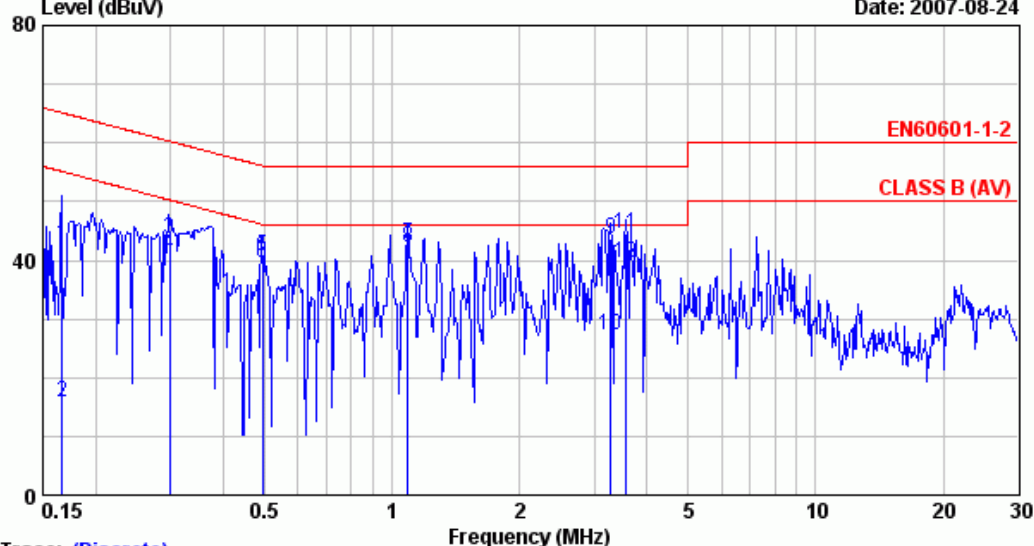
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.198	0.10	0.20	44.11	44.41	63.70	19.29	QP
2	0.198	0.10	0.20	42.50	42.80	53.70	10.90	AVERAGE
3	0.494	0.10	0.20	40.65	40.95	56.10	15.15	QP
4	0.494	0.10	0.20	38.67	38.97	46.10	7.13	AVERAGE
5	1.091	0.11	0.40	42.34	42.85	56.00	13.15	QP
6	1.091	0.11	0.40	42.07	42.58	46.00	3.42	AVERAGE
7	3.282	0.20	0.40	42.70	43.30	56.00	12.70	QP
8	3.282	0.20	0.40	39.92	40.52	46.00	5.48	AVERAGE
9	3.663	0.20	0.40	43.56	44.16	56.00	11.84	QP
10	3.663	0.20	0.40	31.98	32.58	46.00	13.42	AVERAGE
11	3.777	0.20	0.40	43.15	43.75	56.00	12.25	QP
12	3.777	0.20	0.40	26.51	27.11	46.00	18.89	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 22 File: F:\test-data\Report\2007\EM961000~961200\EM961185-C.EMI (44) Date: 2007-08-24



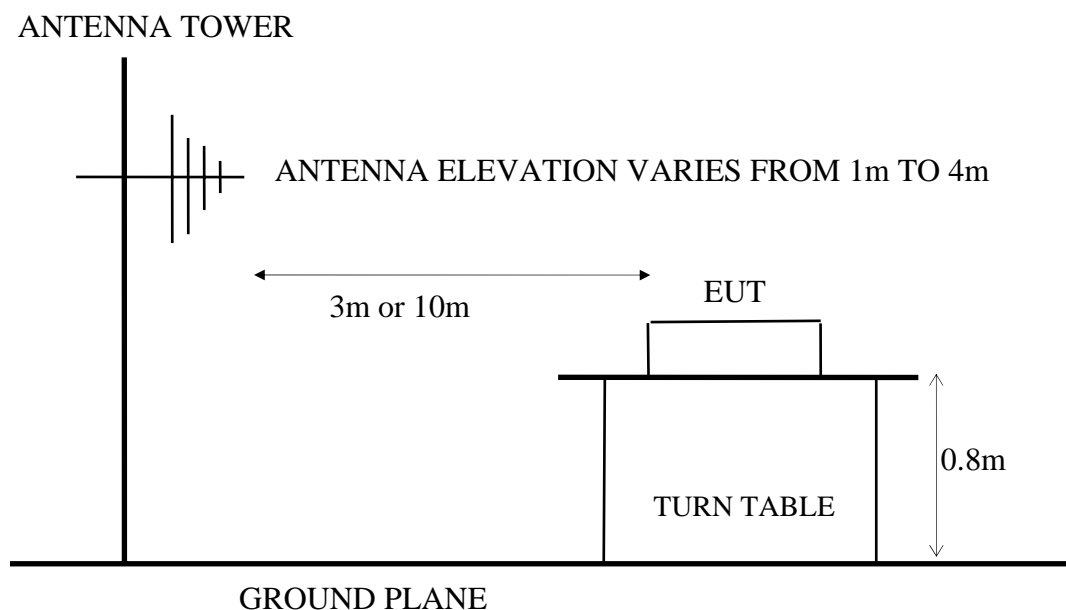
Trace: (Discrete)

Site : NO.3 Shielded Room Data : 22
Condition : KNW-244C Phase : LINE
Limit : EN60601-1-2
Env. / Ins. : 25°C/42% ESCS30 Engineer: Gary-Lin
EUT : LCD Monitor M/N:ER-192 (Adapter LE)
Power Rating : 230Vac/50Hz
Test Mode : SDI IN

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.166	0.13	0.20	42.38	42.71	65.14	22.44	QP
2	0.166	0.13	0.20	15.47	15.80	55.14	39.35	AVERAGE
3	0.298	0.10	0.20	43.41	43.71	60.29	16.58	QP
4	0.298	0.10	0.20	40.58	40.88	50.29	9.41	AVERAGE
5	0.494	0.10	0.20	40.57	40.87	56.10	15.23	QP
6	0.494	0.10	0.20	39.36	39.66	46.10	6.44	AVERAGE
7	1.092	0.10	0.40	42.32	42.82	56.00	13.18	QP
8	1.092	0.10	0.40	41.69	42.19	46.00	3.81	AVERAGE
9	3.281	0.17	0.40	43.11	43.68	56.00	12.32	QP
10	3.281	0.17	0.40	26.56	27.13	46.00	18.87	AVERAGE
11	3.576	0.18	0.40	43.91	44.49	56.00	11.51	QP
12	3.576	0.18	0.40	38.88	39.46	46.00	6.54	AVERAGE

Remarks: 1.Emission Level= LISN Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector ,the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4.2.2. Semi-Anechoic Chamber (3m) & Open Area Test Site (10m) Setup Diagram



4.3. Limits for Radiated Disturbance (EN 55011, Group 1/Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	10 (3)	30 (40)
230 ~ 1000	10 (3)	37 (47)

- Note :
- (1) The tighter limit applies at the edge between two frequency bands.
 - (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the E.U.T.
 - (3) () is 3 meters limit.

4.4. EUT's Configuration during Compliance Measurement

The configuration of EUT is same as used in conducted measurement. Please refer to 3.4.

4.5. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 4.2.

4.6. Test Procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set to 10 meters (or 3 meters at semi-anechoic chamber) way from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antennas (biconical antenna & log periodic antenna at semi-anechoic chamber and calibrated bilog antenna at open area test site) were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to EN 55011 requirements.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was pre-scanned with Peak detector at semi-anechoic chamber and all final readings of measurement were with Quasi-Peak detector at open area test site.

4.7. Radiated Disturbance Measurement Results

PASSED. (All emissions not reported below are too low against the prescribed limits.)

EUT with following test modes were measured at semi-anechoic chamber and all the scanning waveform are listed in section 4.7.1.

EUT : LCD Monitor M/N : ER-192

Test Date : Aug. 22, 2007 Temperature : 26 Humidity : 60%

The details of test modes and reference test data are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency	Reference Test Data No.			
				Horizontal		Vertical	
				30-300 MHz	300-1000 MHz	30-300 MHz	300-1000 MHz
1.	AULT, M/N MW116	D-Sub	H Pattern, 800*600/60Hz	# 5	# 8	# 6	# 7
*2.		D-Sub	H Pattern, 1280*1024/75Hz	# 4	# 9	# 3	# 10
3.		D-Sub	H Pattern, 1600*1200/60Hz	# 1	# 12	# 2	# 11
4.		DVI	H Pattern, 640*480/60Hz	# 36	# 17	# 35	# 18
5.		DVI	H Pattern, 1024*768/60Hz	# 37	# 16	# 38	# 15
6.		DVI	H Pattern, 1280*1024/60Hz	# 40	# 13	# 39	# 14
7.		AV IN	Color Bar Image	# 32	# 21	# 31	# 22
8.		S IN	Color Bar Image	# 33	# 20	# 34	# 19
9.		Component Video IN	Color Bar Image	# 29	# 24	# 30	# 23
10.		SDI IN	Color Bar Image	# 28	# 25	# 27	# 26
*11.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz	# 41	# 44	# 42	# 43

(* worst test modes)

Finally, selected the **worst test modes (Mode 2, 11)** were measured at No. 6 open area test site and all the test results are listed in 4.7.2.

EUT : LCD Monitor M/N : ER-192

Test Date : Aug. 23, 2007 Temperature : 28 Humidity : 43%

The details of test modes and reference test data are as follows :

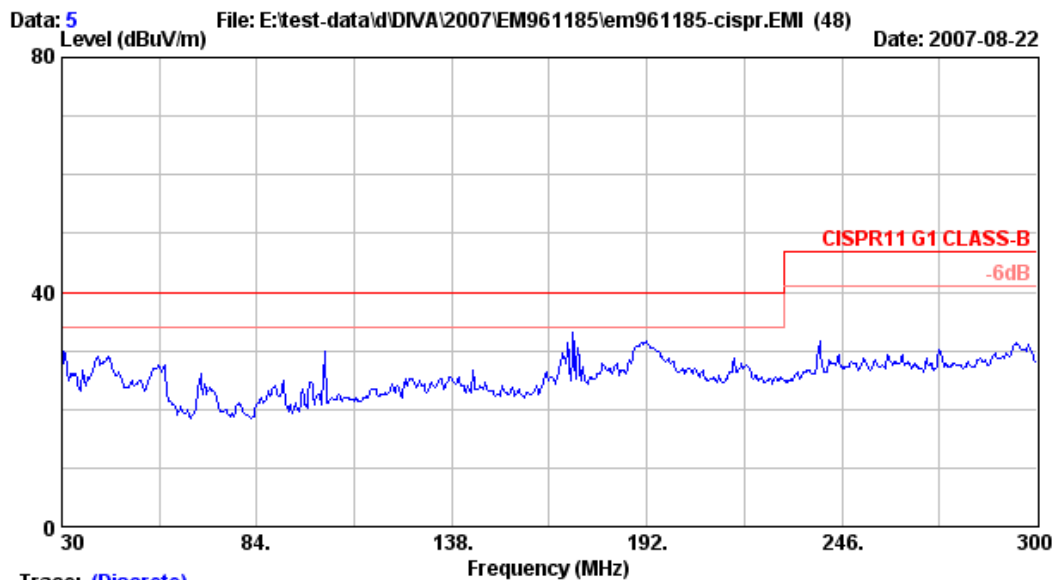
Mode	AC Adapter	Input	Display, Resolution/ Frequency	Reference Test Data No.	
				Horizontal	Vertical
*2.	AULT, M/N MW116	D-Sub	H Pattern, 1280*1024/75Hz	# 2	# 1
*11.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz	# 3	# 4

(* mode for maximum detected emission)

4.7.1. Radiated Disturbance Measurement Results at Semi-Anechoic Chamber

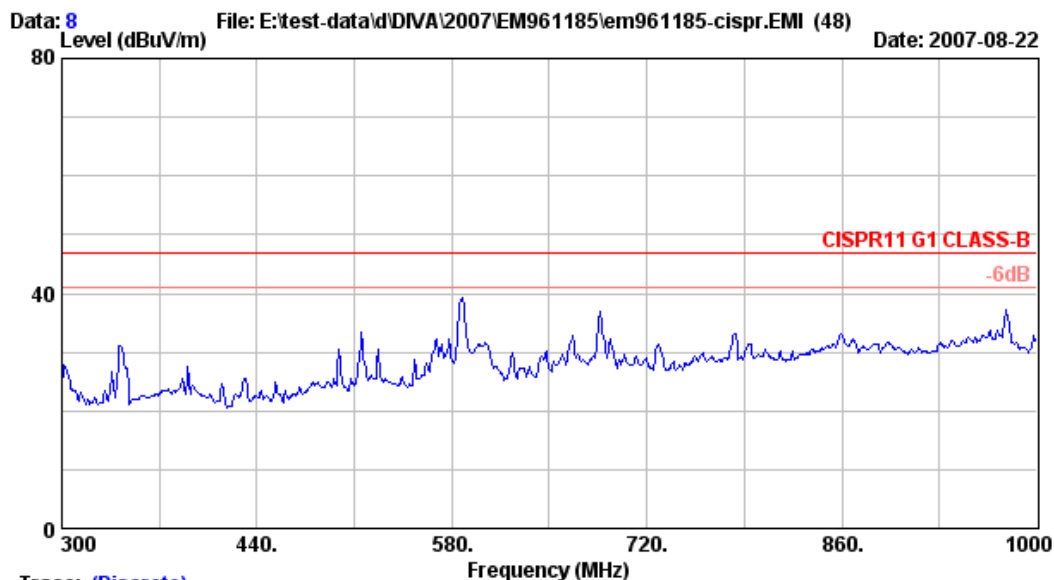


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 5
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E7405A 26°C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac/50Hz		
Test Mode	: 800*600/60Hz(D-SUB)		
	ADP : AULT(M/N:MW16)		

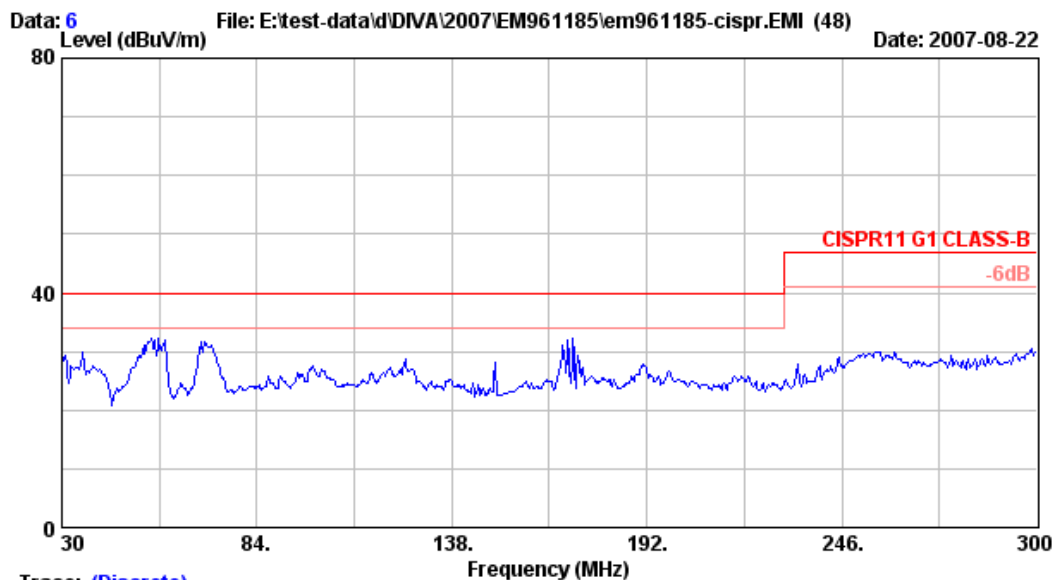


Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 8
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E7405A 26°C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac/50Hz		
Test Mode	: 800*600/60Hz(D-SUB)		
	ADP : AULT(M/N:MW16)		

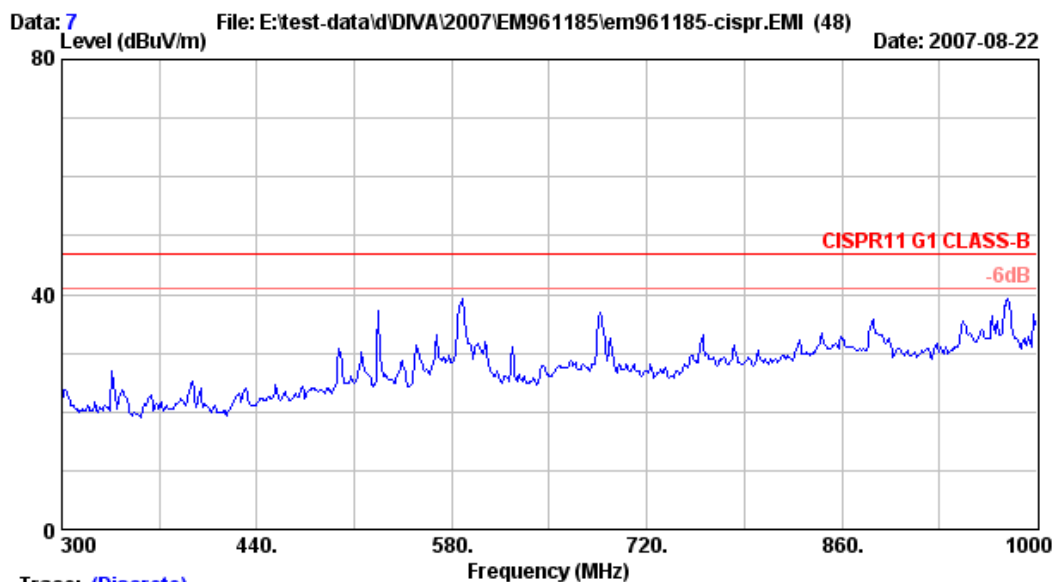


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 6
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 800*600/60Hz(D-SUB)	
ADP : AULT(M/N:MW16)	

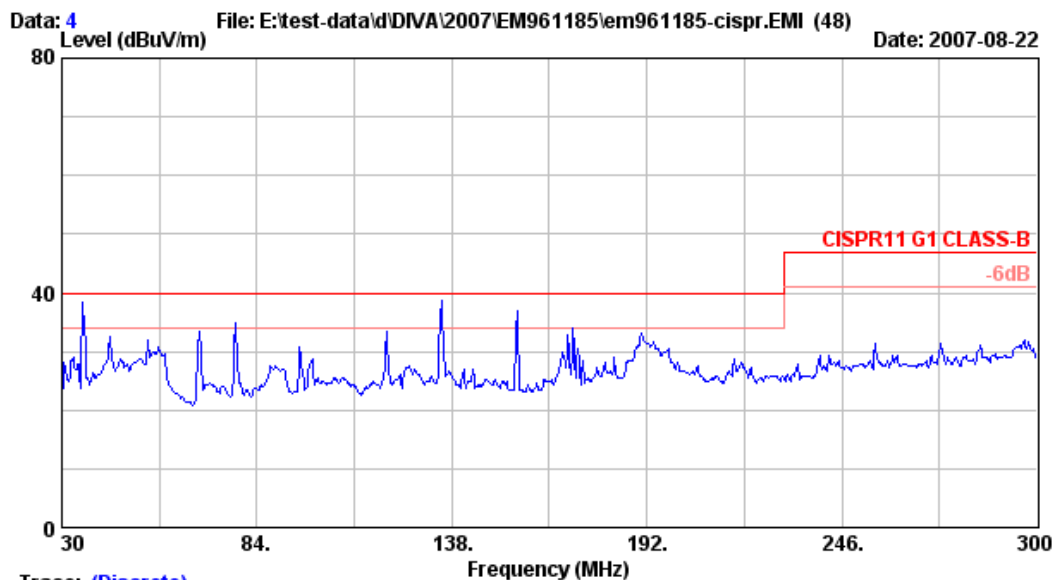


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 7
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 800*600/60Hz(D-SUB)	
ADP : AULT(M/N:MW16)	

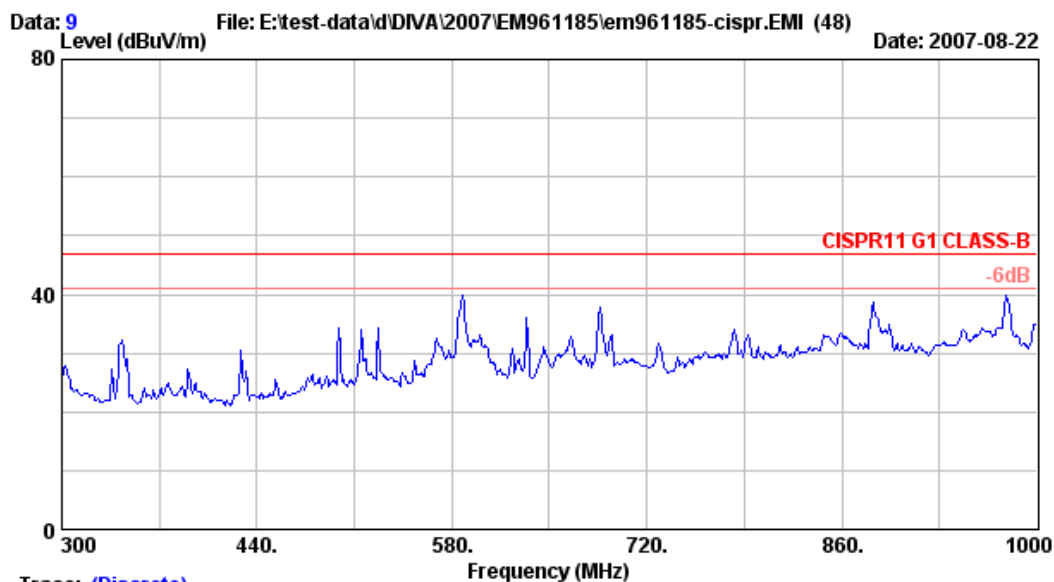


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 4
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/75Hz (D-SUB)	
ADP : AULT(M/N:MW16)	

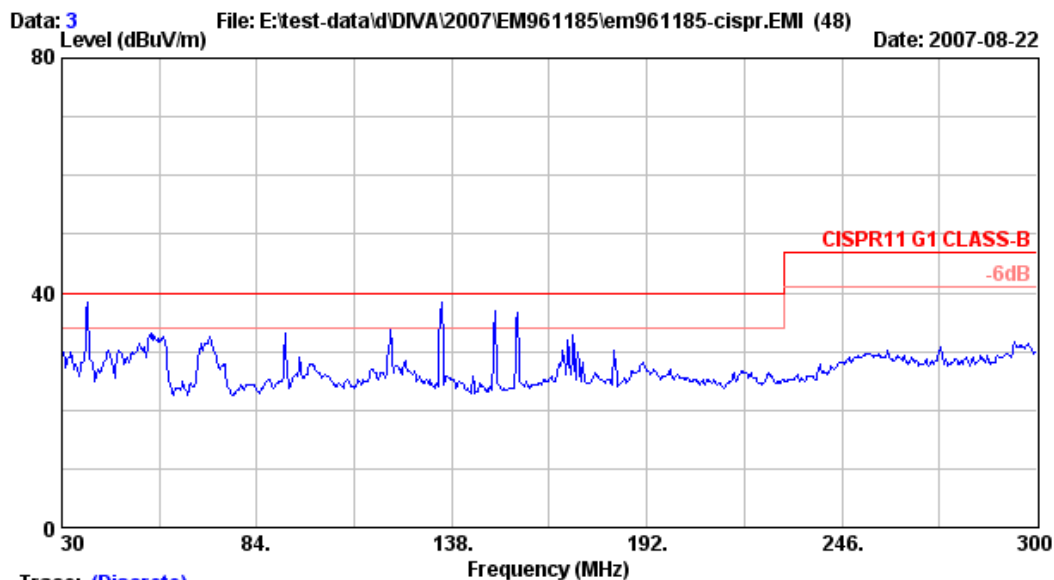


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 9
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/75Hz (D-SUB)	
ADP : AULT(M/N:MW16)	

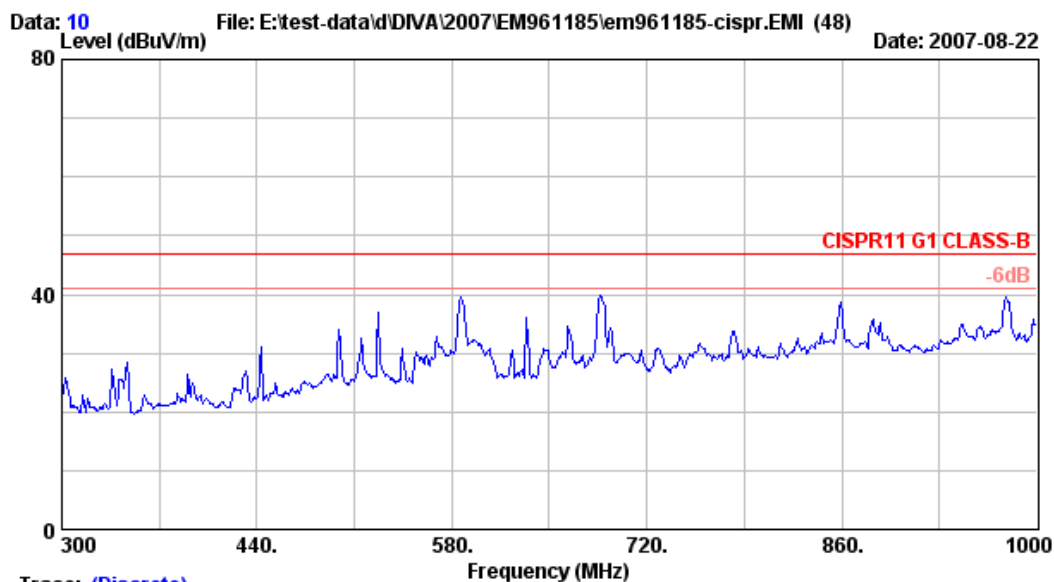


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 3
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/75Hz (D-SUB)	
ADP : AULT(M/N:MW16)	

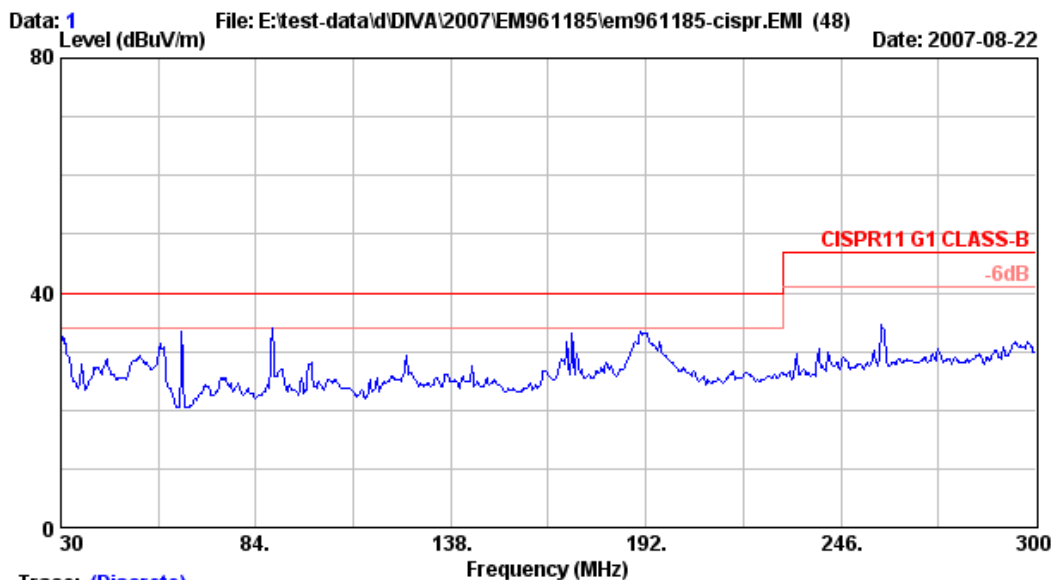


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 10
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/75Hz (D-SUB)	
ADP : AULT(M/N:MW16)	

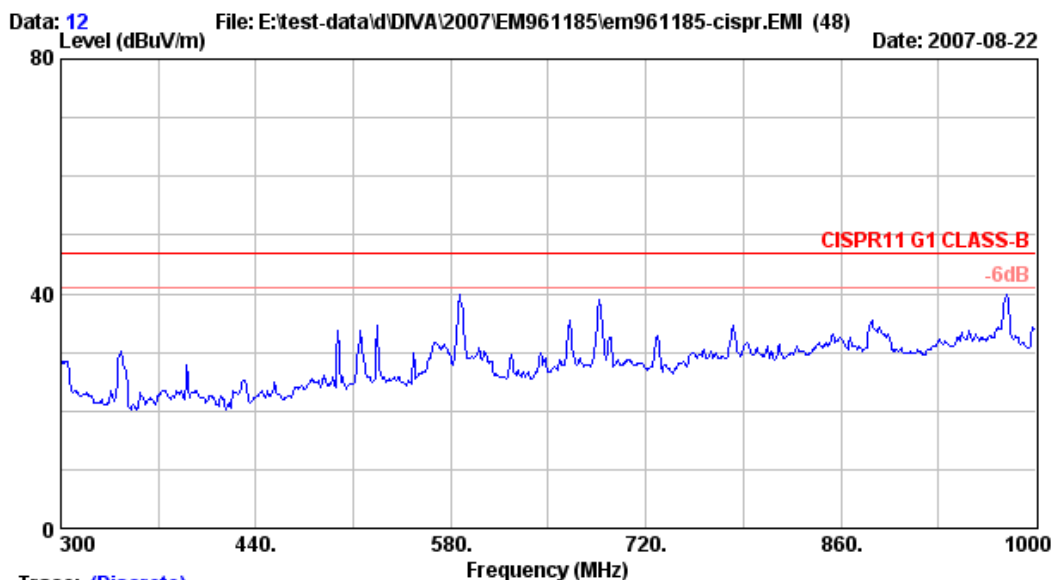


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 1
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1600*1200/60Hz (D-SUB)	
ADP : AULT(M/N:MW16)	



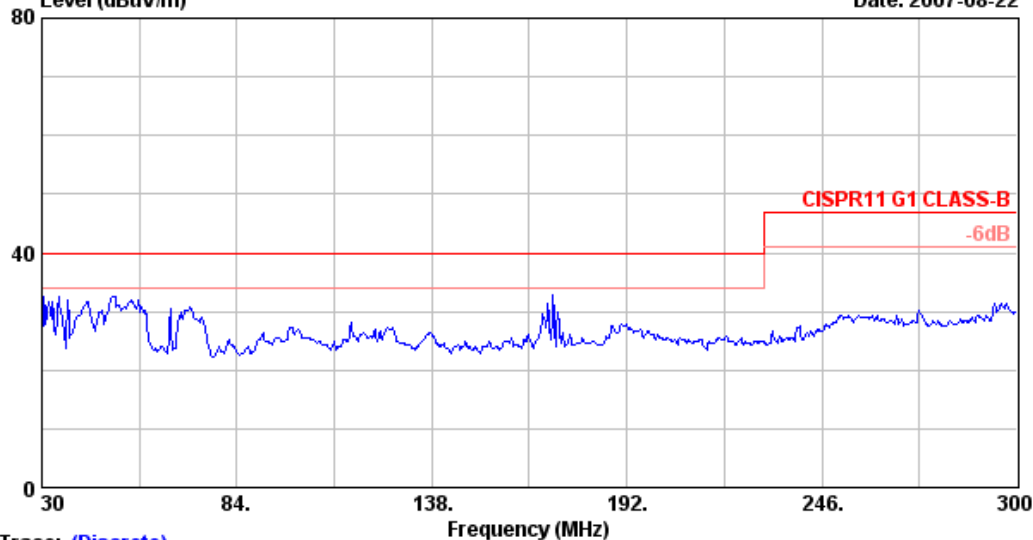
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 12
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1600*1200/60Hz (D-SUB)	
ADP : AULT(M/N:MW16)	



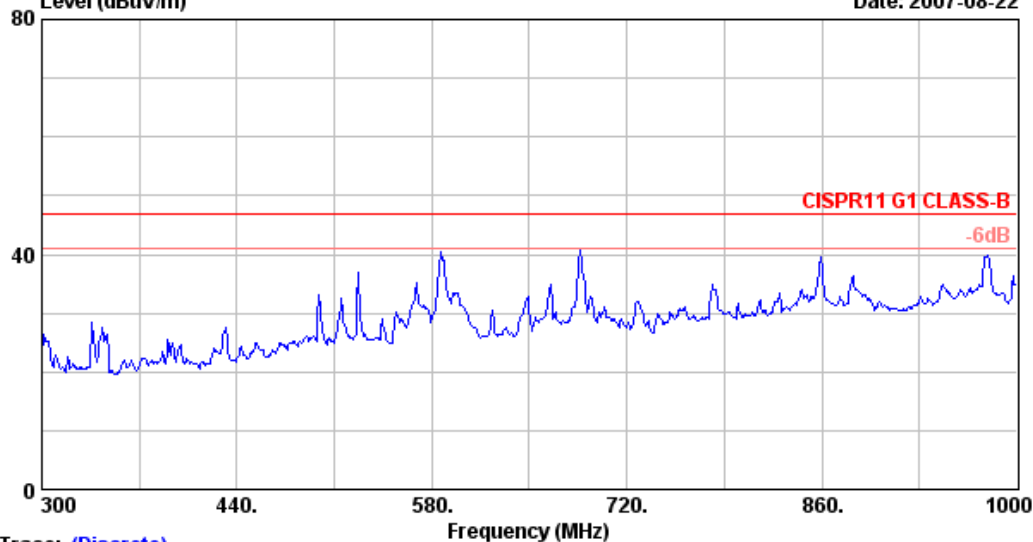
AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw

Data: 2 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m VBA6106A(1264)2006 Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : 1600*1200/60Hz (D-SUB)
ADP : AULT(M/N:MW16)

Data: 11 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22

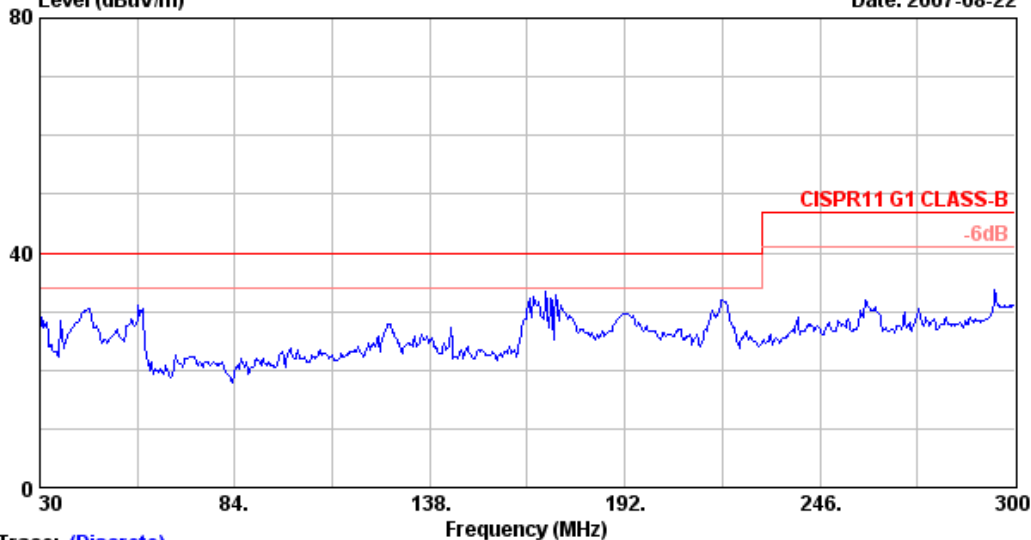


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 11
Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : 1600*1200/60Hz (D-SUB)
ADP : AULT(M/N:MW16)



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw

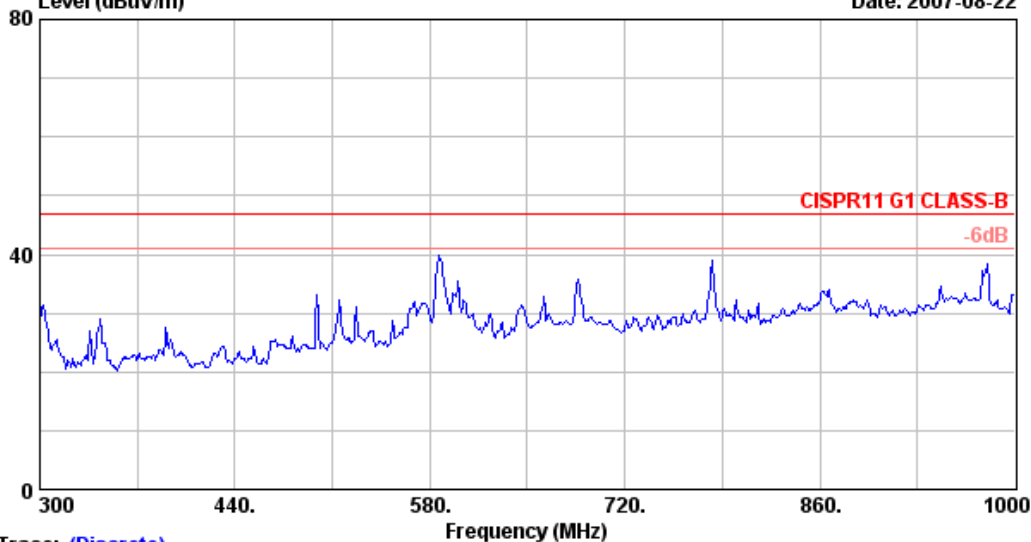
Data: 36 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 36
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E7405A 26°C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac/50Hz		
Test Mode	: 640*480/60Hz(DVI)		
	ADP : AULT(M/N:MW16)		

Data: 17 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



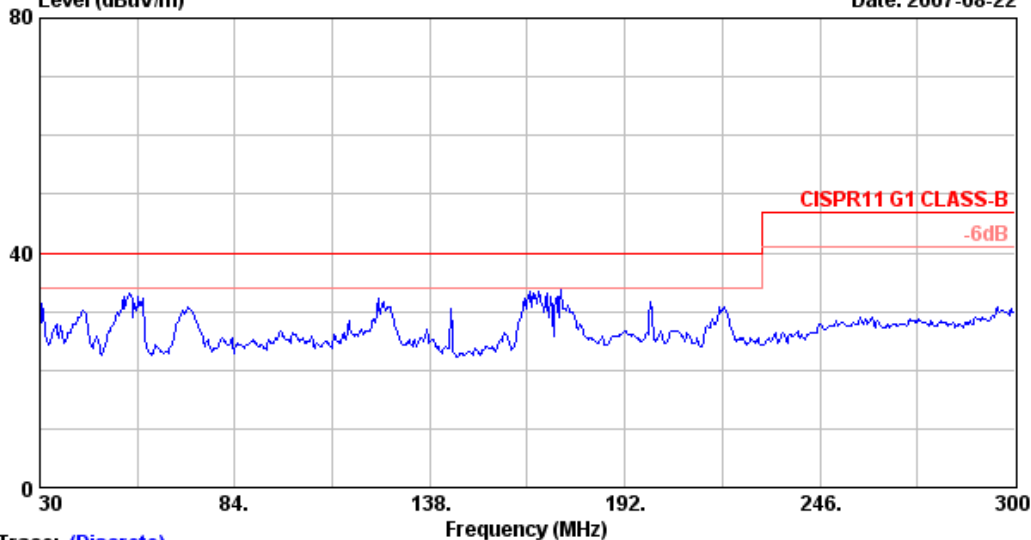
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 17
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E7405A 26°C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac/50Hz		
Test Mode	: 640*480/60Hz(DVI)		
	ADP : AULT(M/N:MW16)		



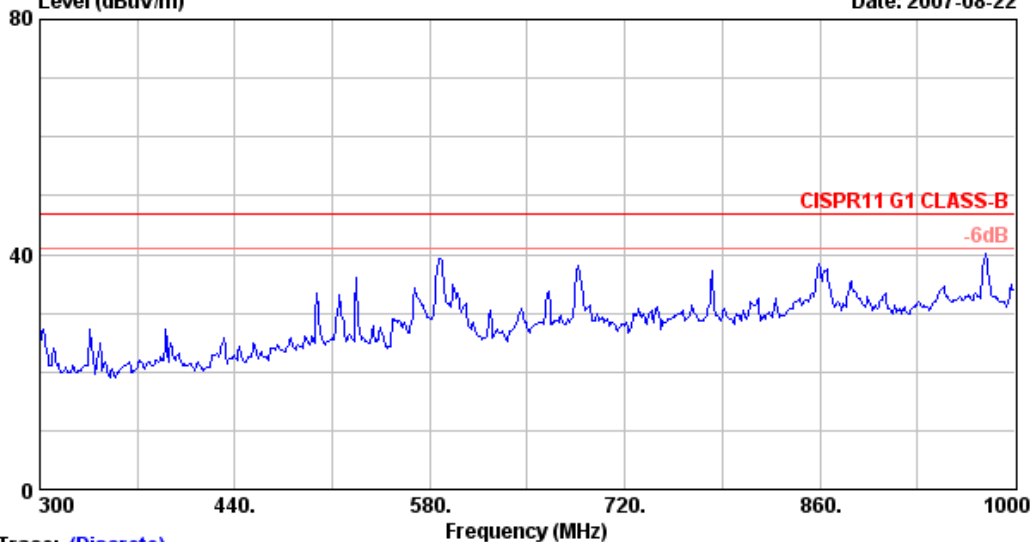
AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw

Data: 35 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 35
Dis. / Ant. : 3m VBA6106A(1264)2006 Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : 640*480/60Hz(DVI)
ADP : AULT(M/N:MW16)

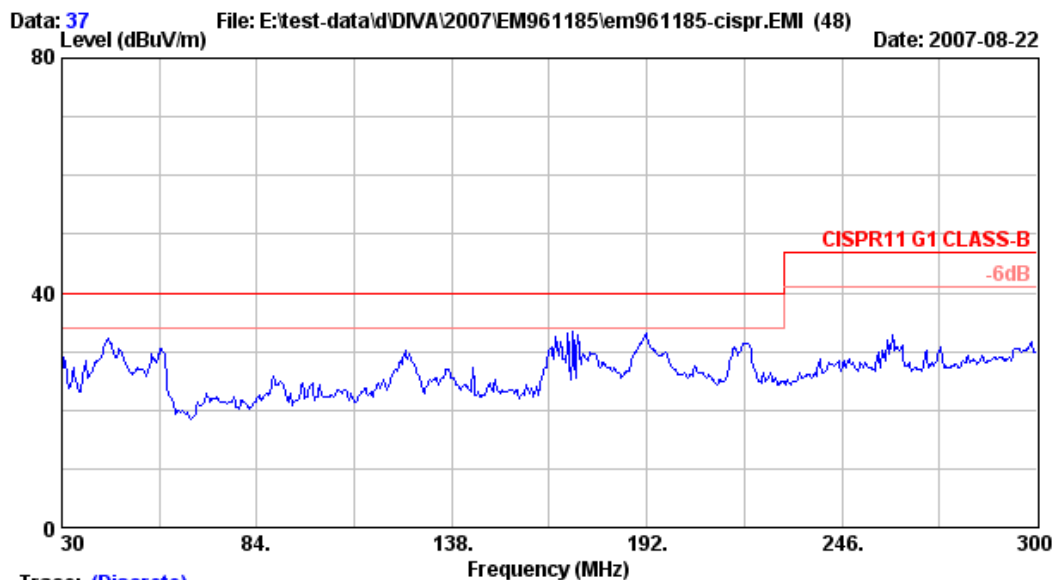
Data: 18 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 18
Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : 640*480/60Hz(DVI)
ADP : AULT(M/N:MW16)

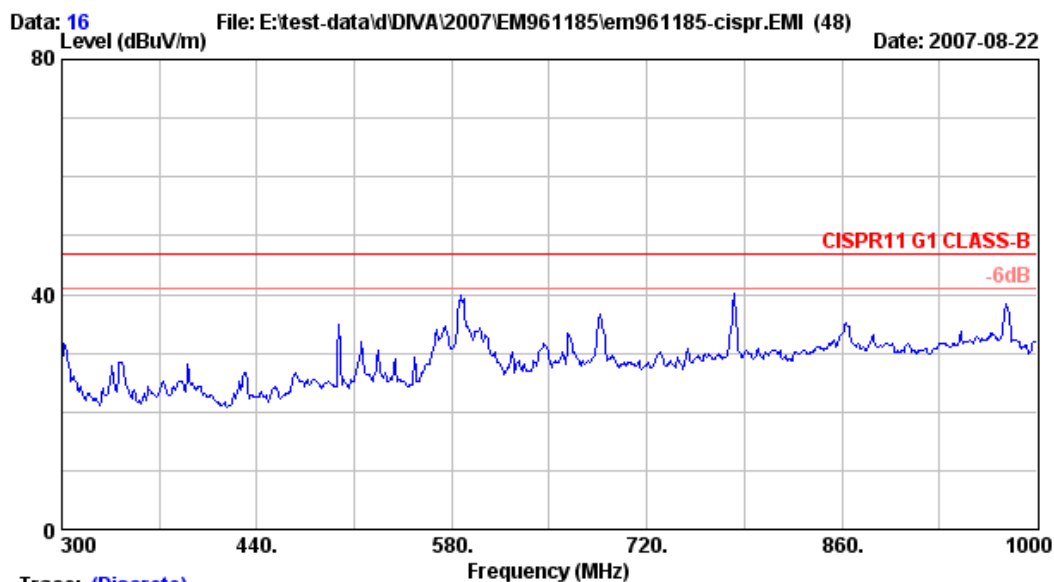


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 37
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1024*768/60Hz(DVI)	
ADP : AULT(M/N:MW16)	

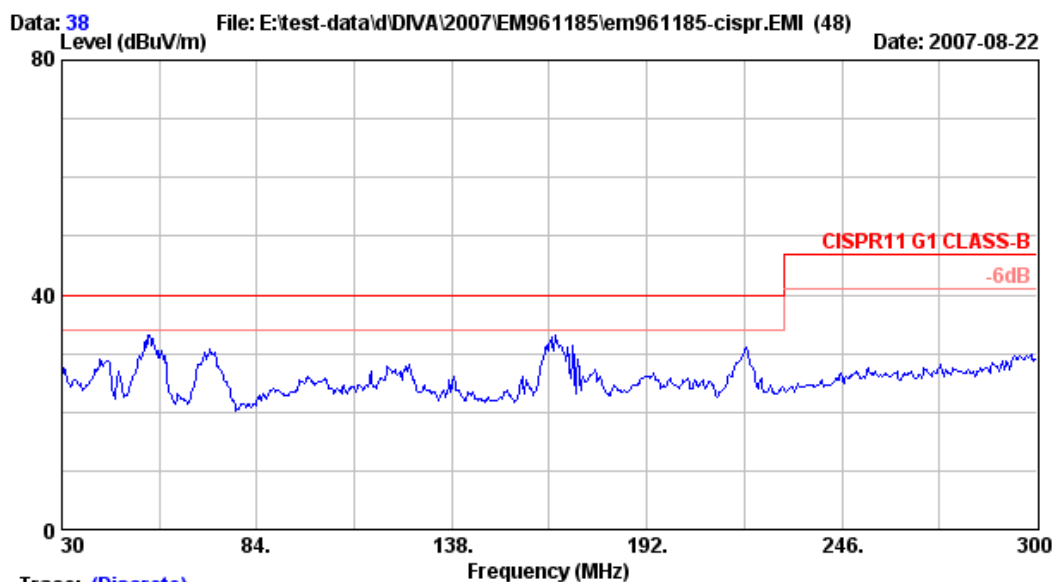


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 16
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1024*768/60Hz(DVI)	
ADP : AULT(M/N:MW16)	

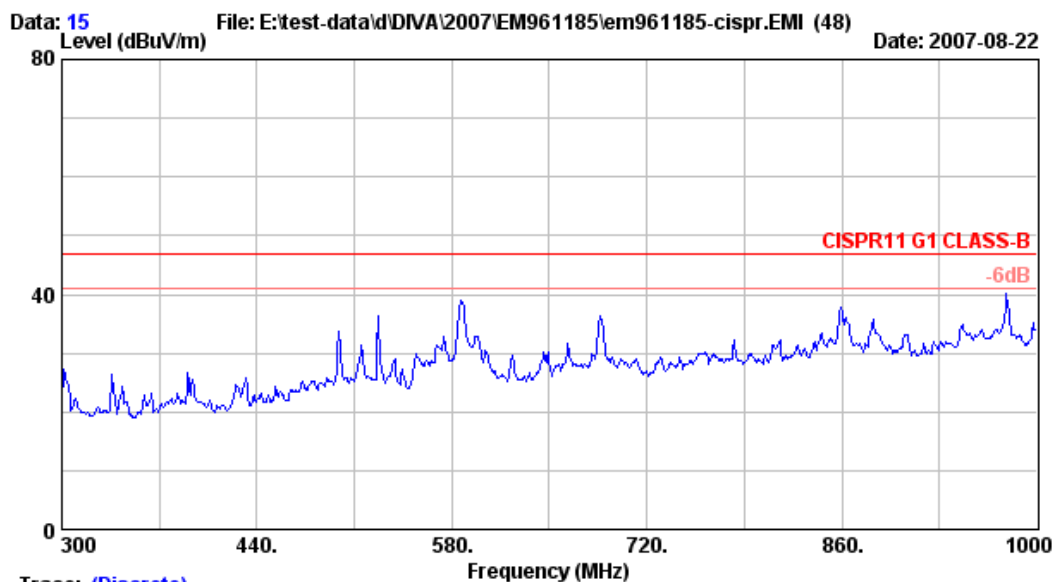


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 38
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1024*768/60Hz(DVI)	
ADP : AULT(M/N:MW16)	

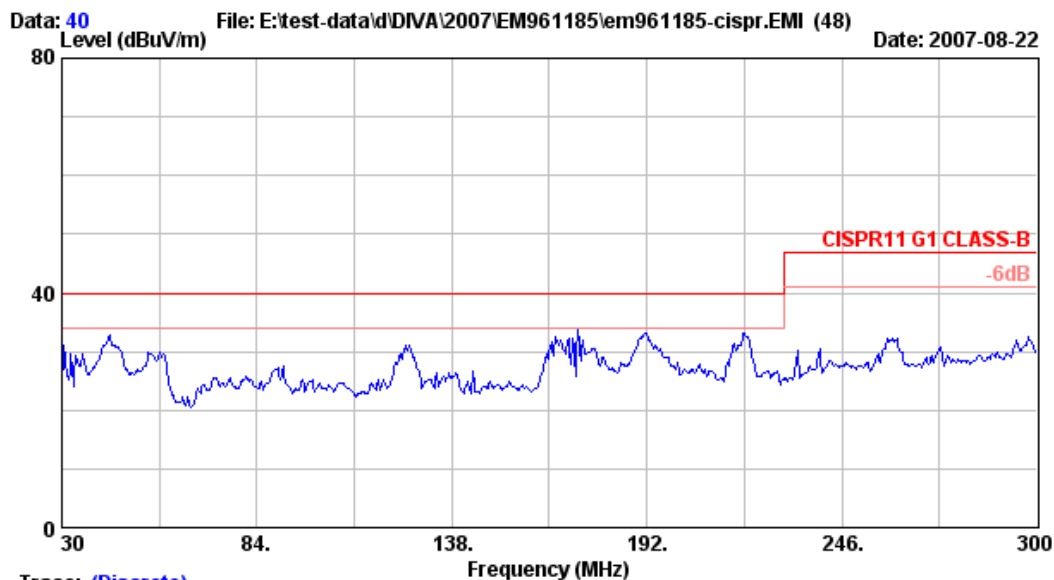


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 15
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1024*768/60Hz(DVI)	
ADP : AULT(M/N:MW16)	

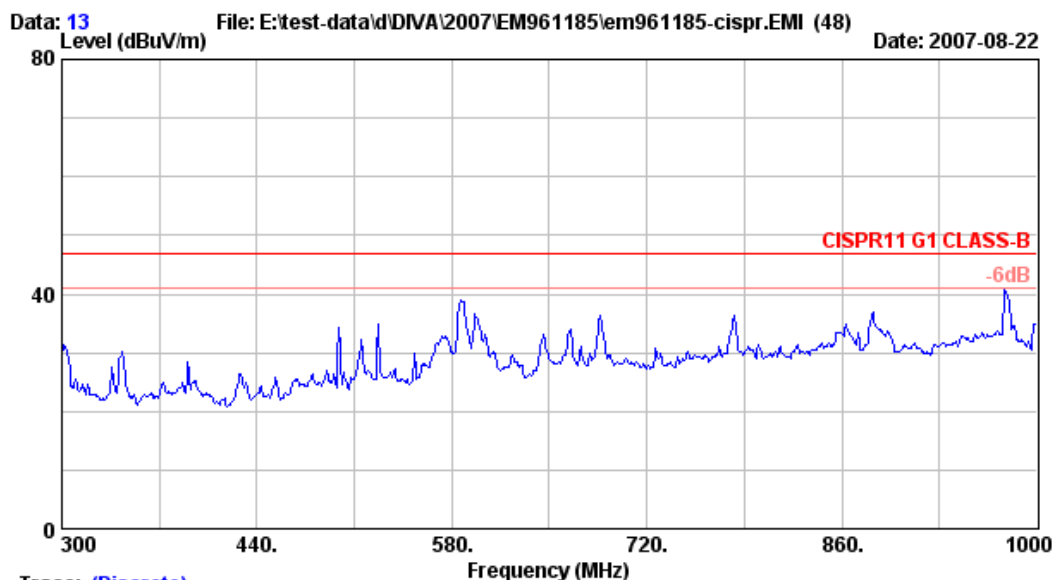


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 40
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/60Hz (DVI)	
ADP : AULT(M/N:MW16)	

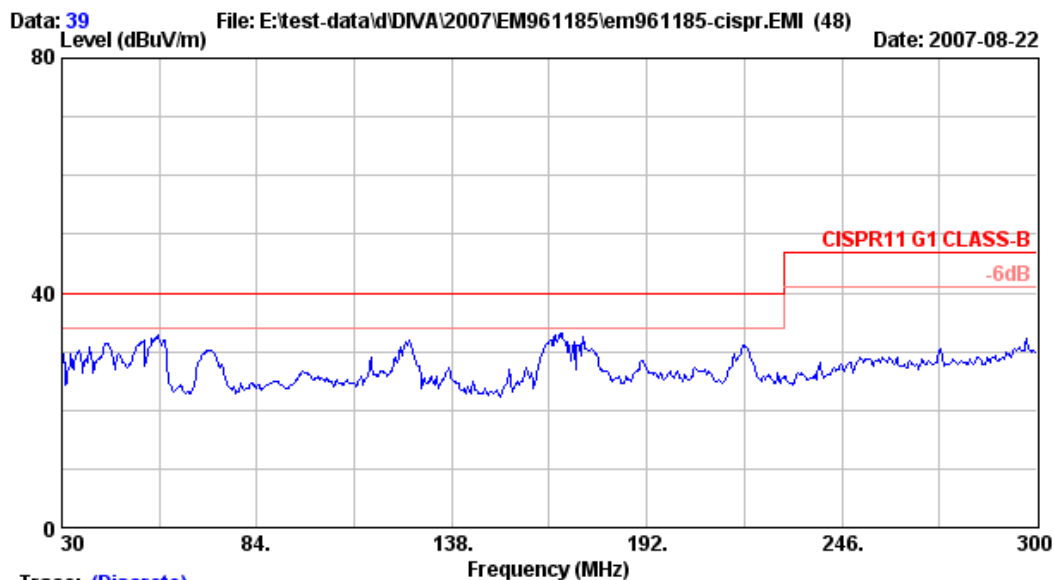


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 13
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/60Hz (DVI)	
ADP : AULT(M/N:MW16)	

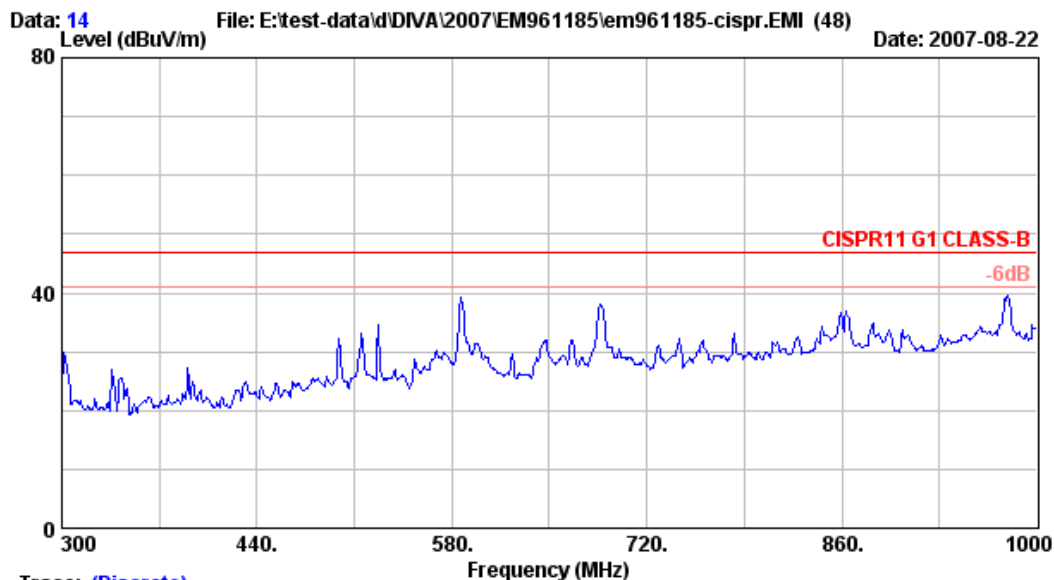


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 39
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/60Hz (DVI)	
ADP : AULT(M/N:MW16)	

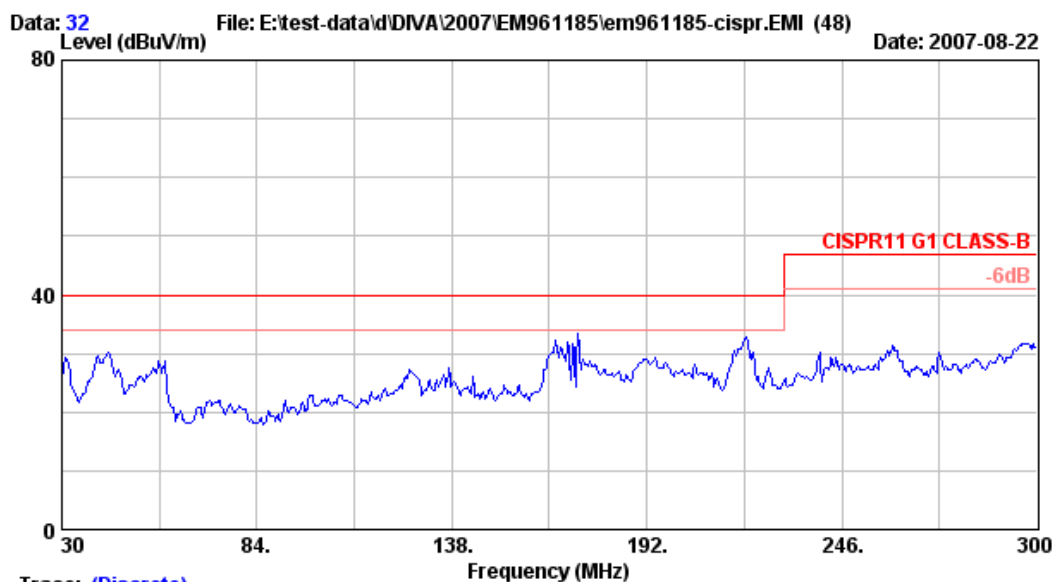


Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 14
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/60Hz (DVI)	
ADP : AULT(M/N:MW16)	

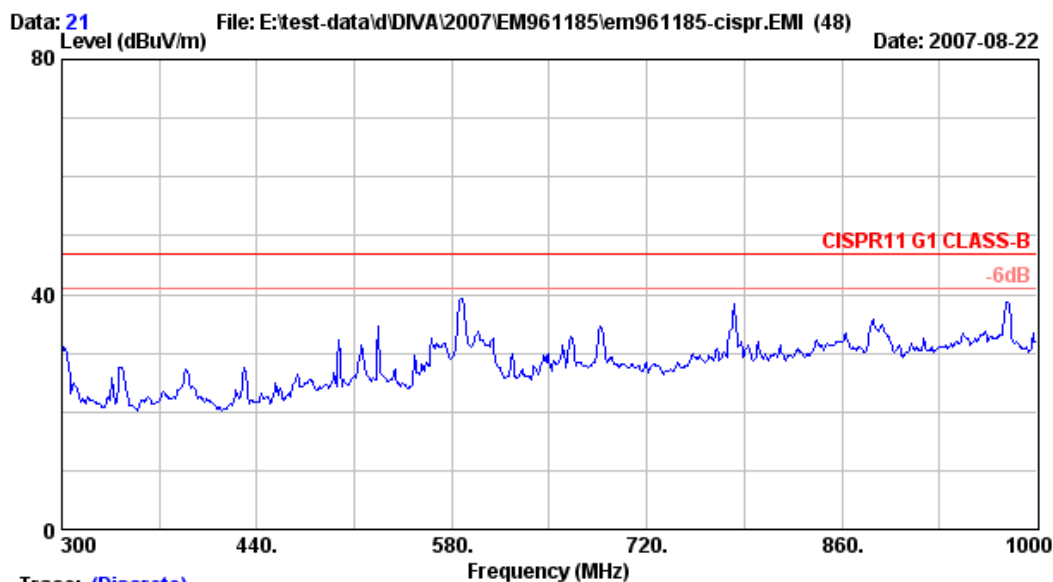


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 32
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E7405A 26°C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac/50Hz		
Test Mode	: AV IN		
	ADP : AULT(M/N:MW16)		



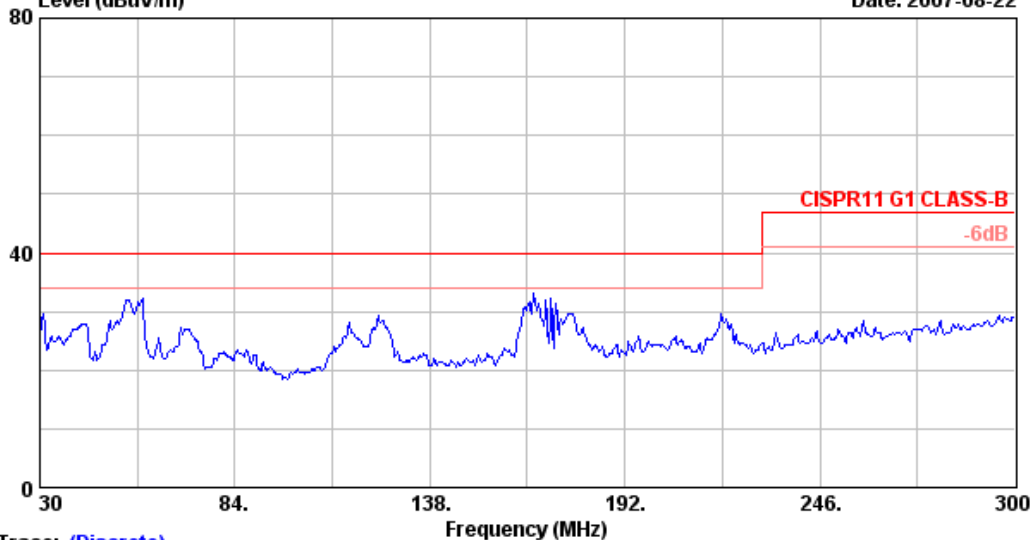
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 21
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E7405A 26°C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac/50Hz		
Test Mode	: AV IN		
	ADP : AULT(M/N:MW16)		



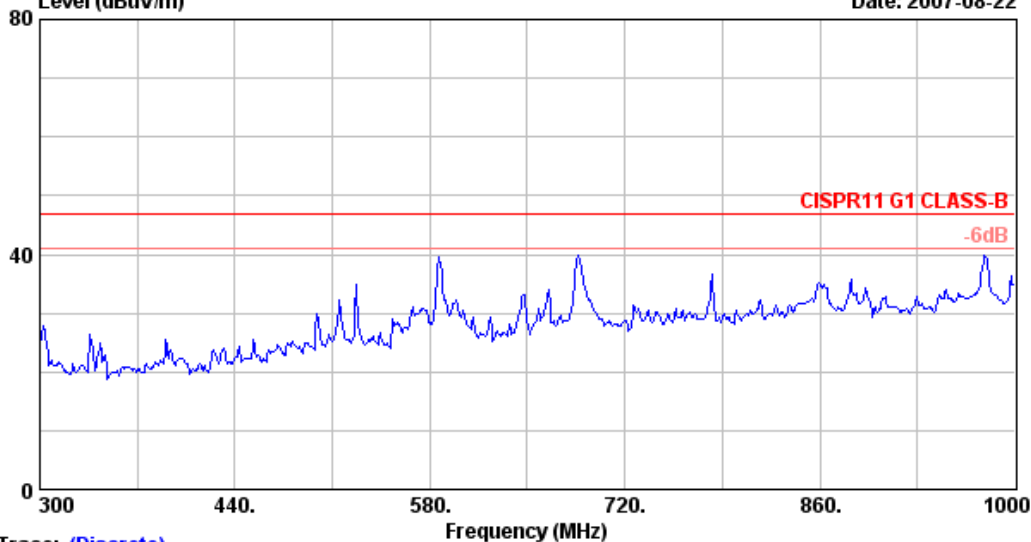
AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw

Data: 31 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 31
Dis. / Ant. : 3m VBA6106A(1264)2006 Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : AV IN
ADP : AULT(M/N:MW16)

Data: 22 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22

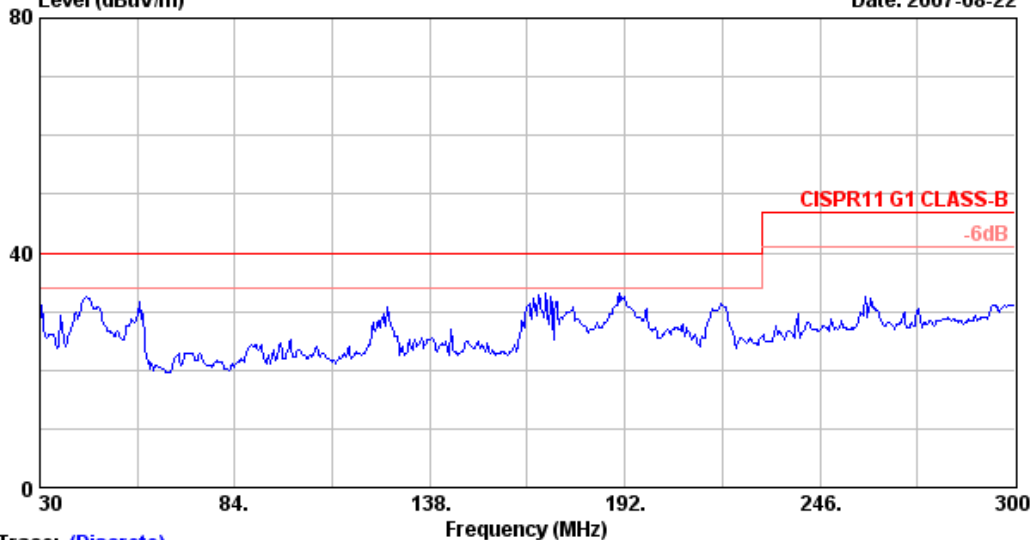


Trace: (Discrete)
Site no. : A/C Chamber Data no. : 22
Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : AV IN
ADP : AULT(M/N:MW16)



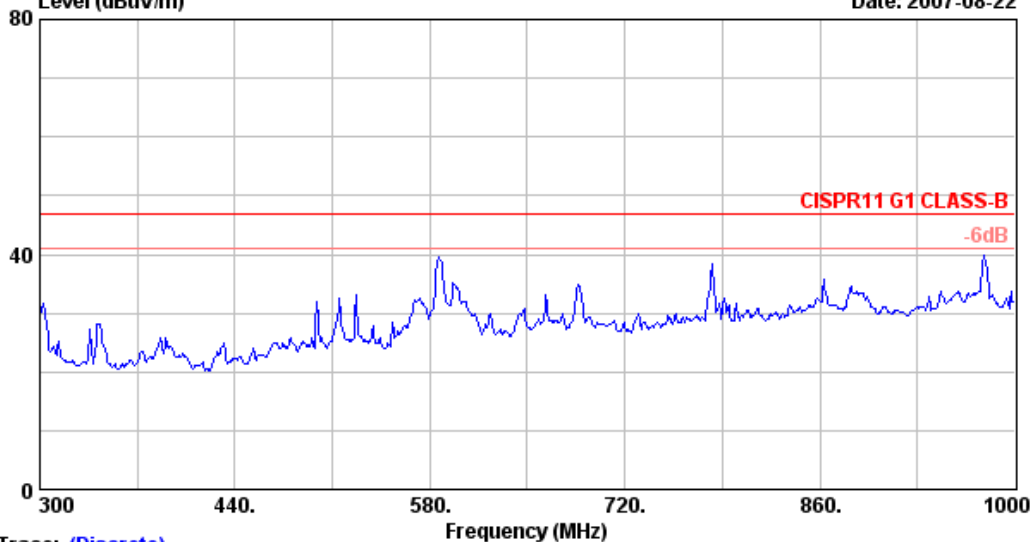
AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw

Data: 33 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 33
Dis. / Ant. : 3m VBA6106A(1264)2006 Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : S IN
ADP : AULT(M/N:MW16)

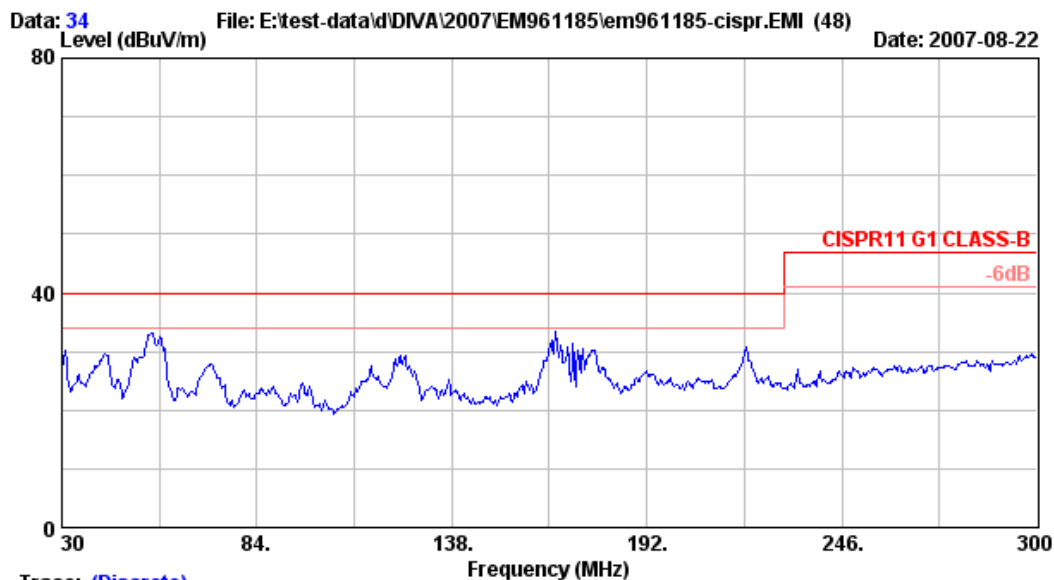
Data: 20 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 20
Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : S IN
ADP : AULT(M/N:MW16)

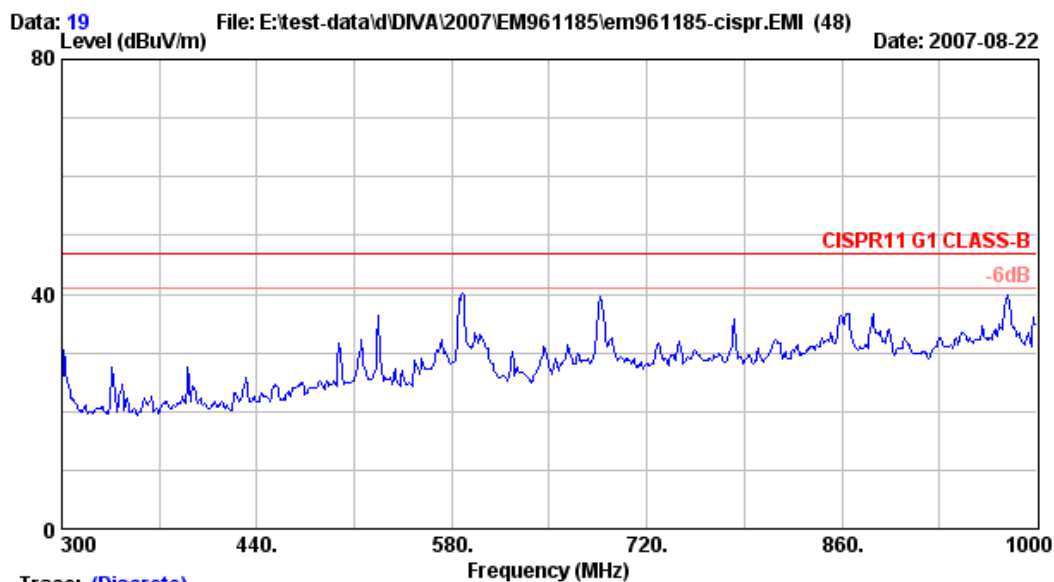


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 34
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : S IN	
ADP : AULT(M/N:MW16)	



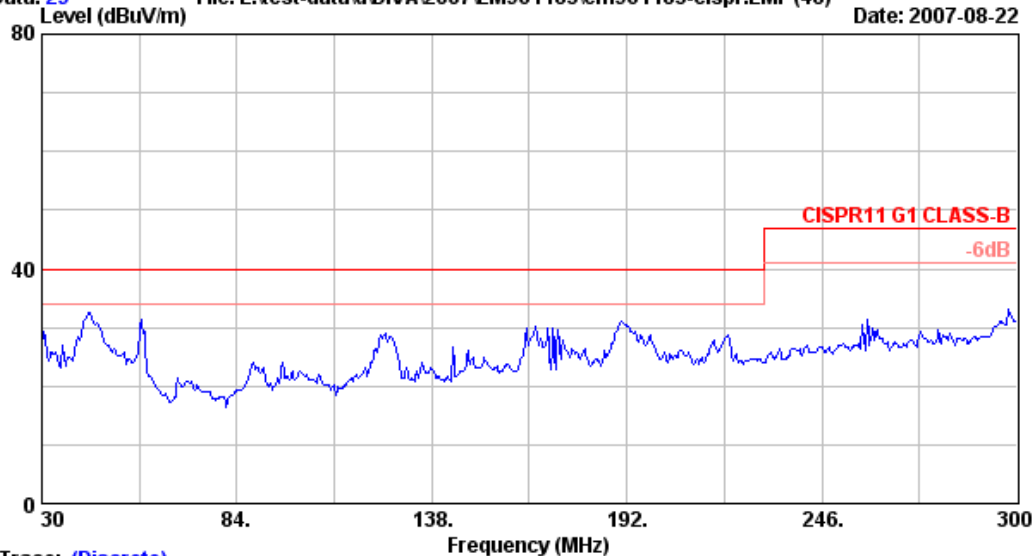
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 19
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : S IN	
ADP : AULT(M/N:MW16)	



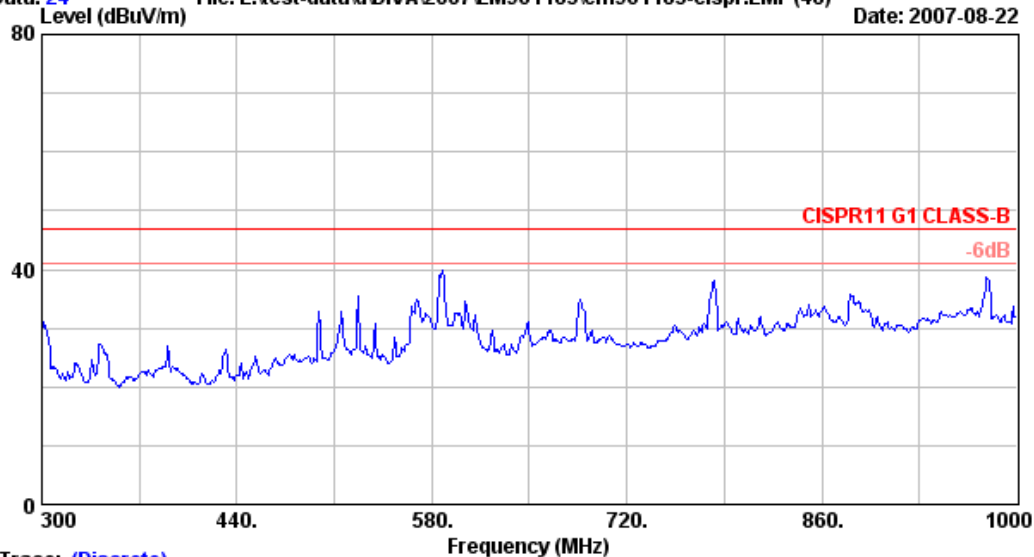
AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw

Data: 29 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 29
Dis. / Ant. : 3m VBA6106A(1264)2006 Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : COMPONENT IN
ADP : AULT(M/N:MW16)

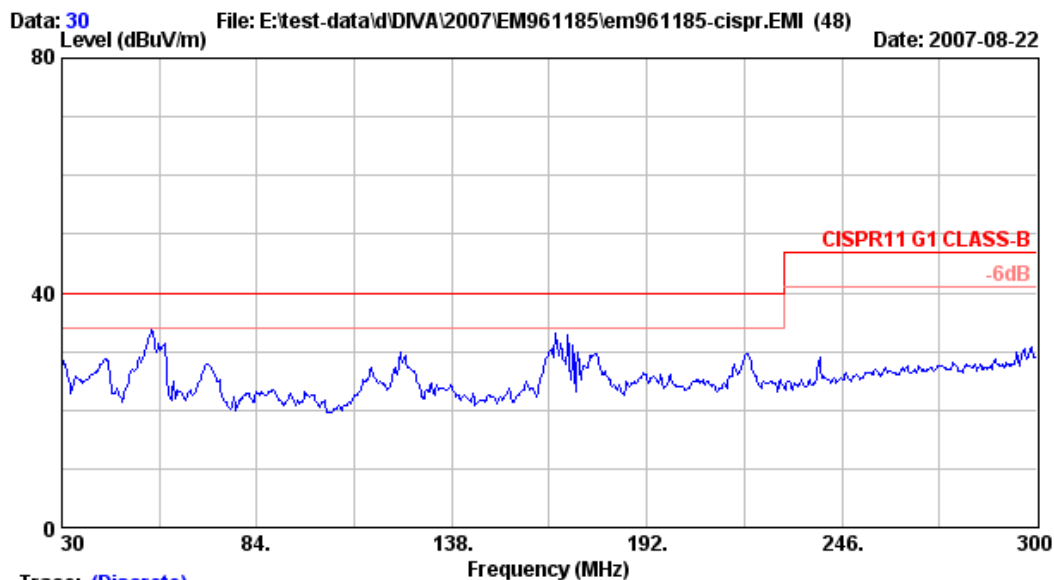
Data: 24 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 24
Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : COMPONENT IN
ADP : AULT(M/N:MW16)

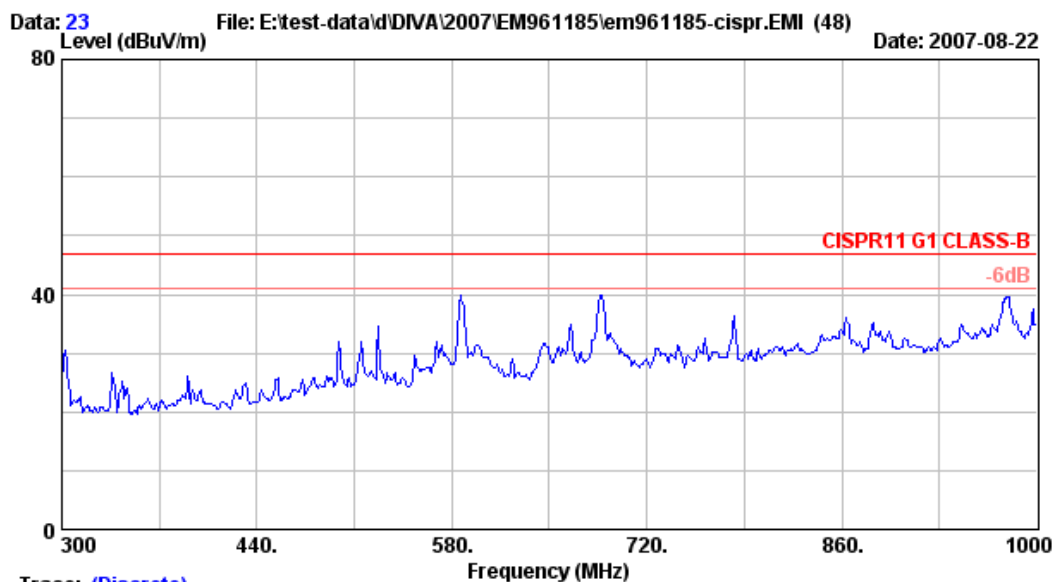


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 30
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : COMPONENT IN	
ADP : AULT(M/N:MW16)	



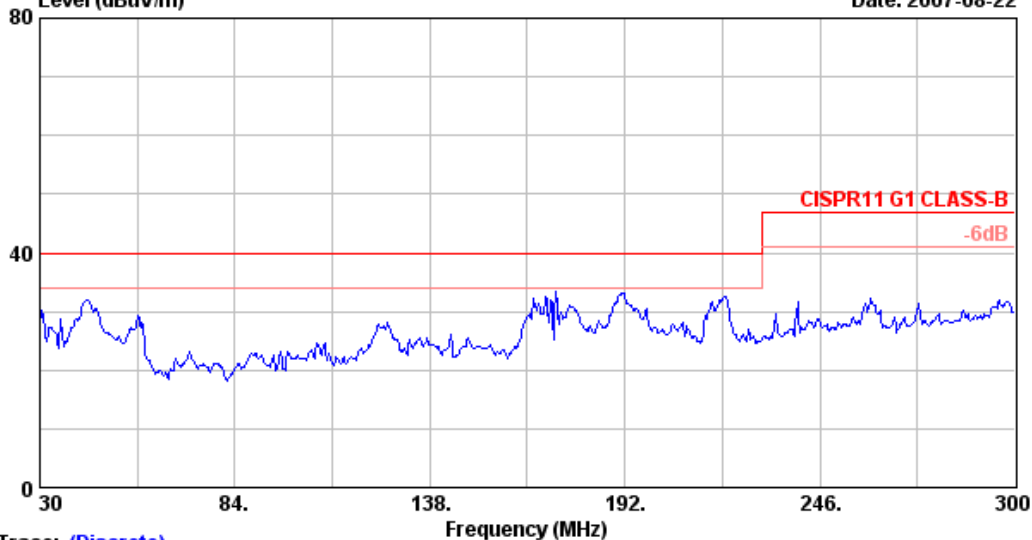
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 23
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : COMPONENT IN	
ADP : AULT(M/N:MW16)	



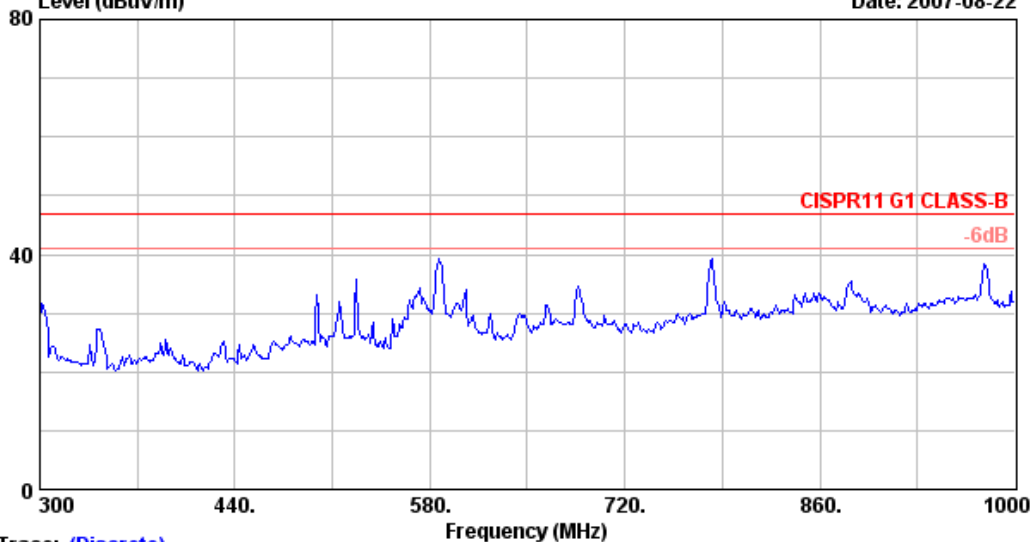
AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw

Data: 28 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 28
Dis. / Ant. : 3m VBA6106A(1264)2006 Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : SDI IN
ADP : AULT(M/N:MW16)

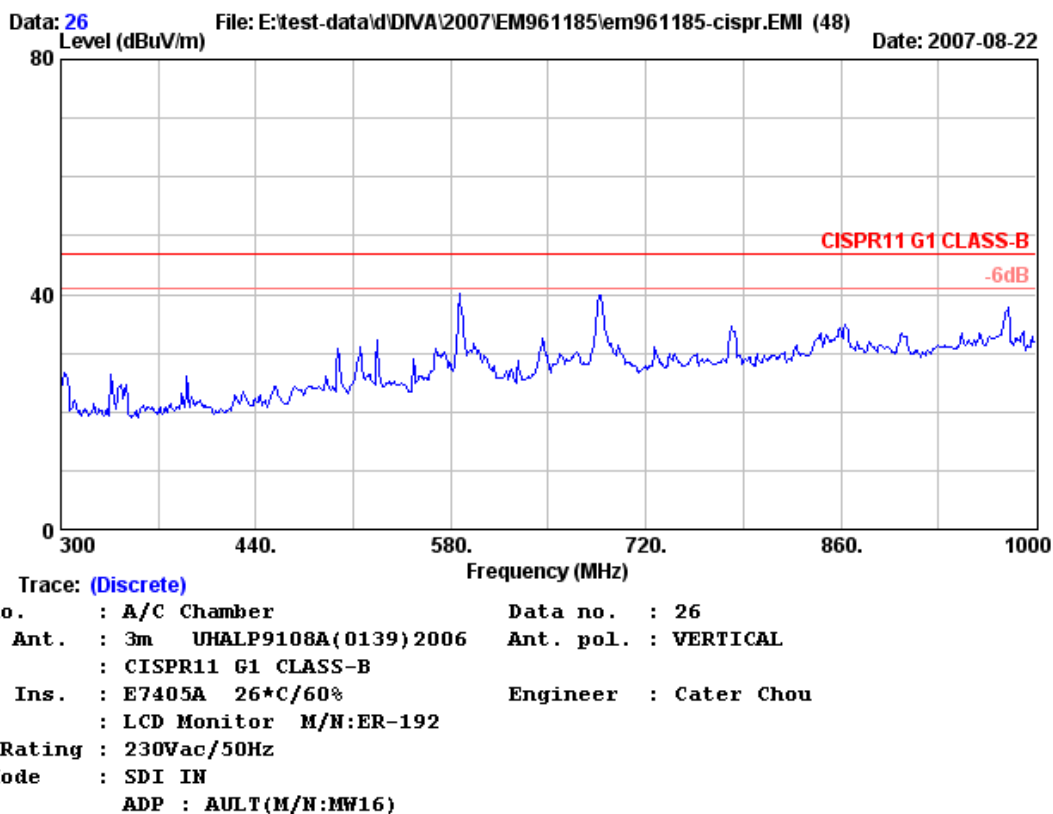
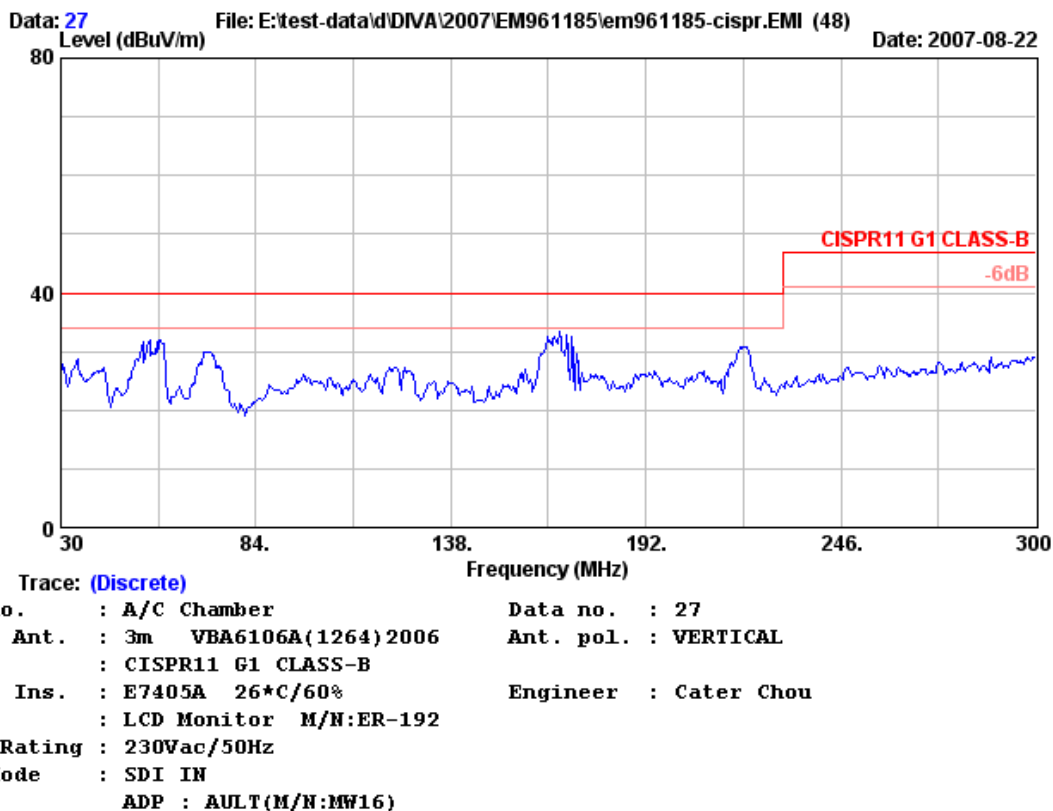
Data: 25 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)
Site no. : A/C Chamber Data no. : 25
Dis. / Ant. : 3m UHALP9108A(0139)2006 Ant. pol. : HORIZONTAL
Limit : CISPR11 G1 CLASS-B
Env. / Ins. : E7405A 26°C/60% Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac/50Hz
Test Mode : SDI IN
ADP : AULT(M/N:MW16)

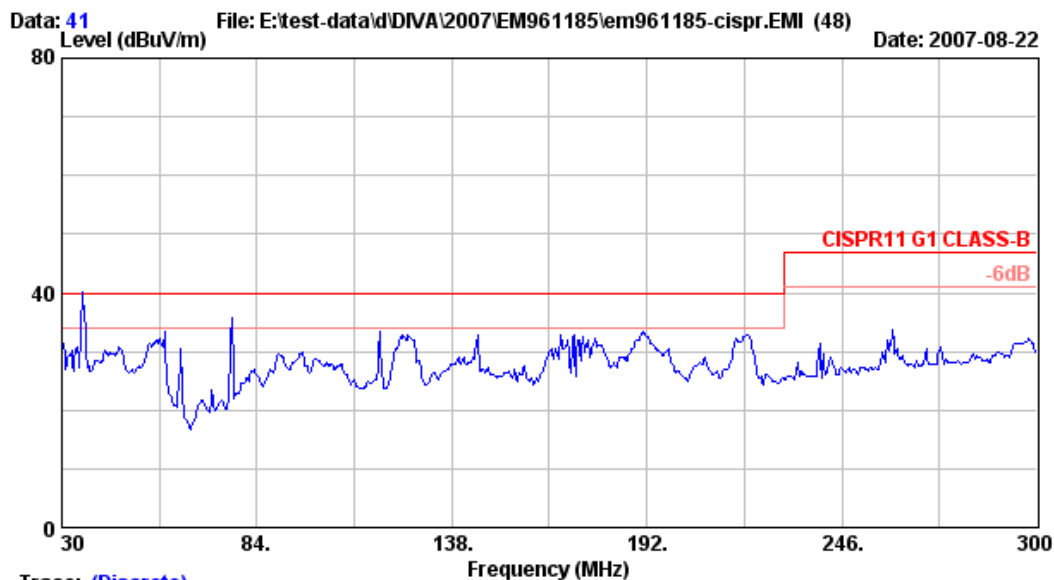


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



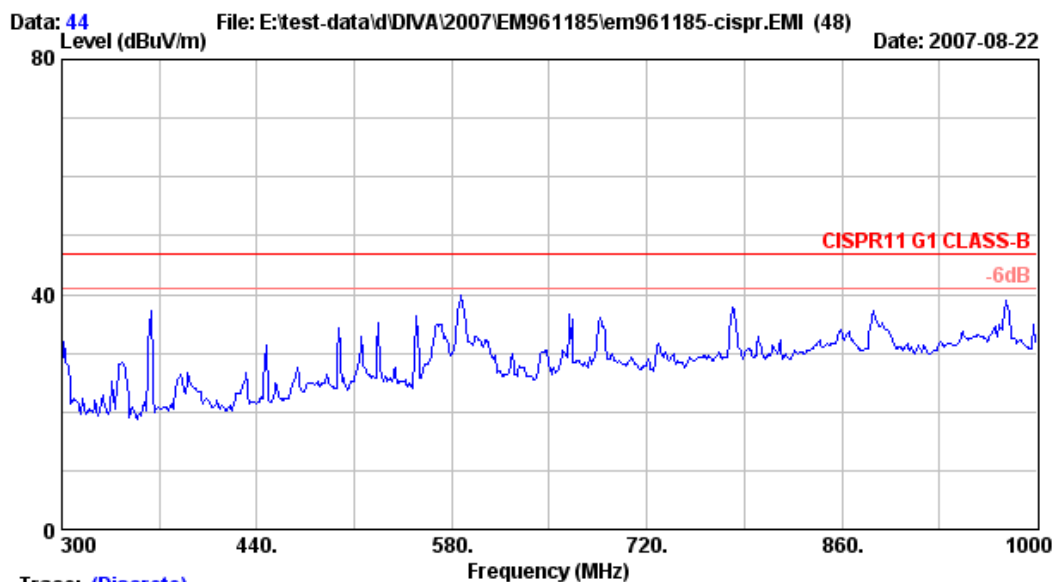


AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 41
Dis. / Ant.	: 3m VBA6106A(1264)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E7405A 26°C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1280*1024/75Hz (D-SUB)		
	ADP : LINE(M/N:LE-0312B130W)		



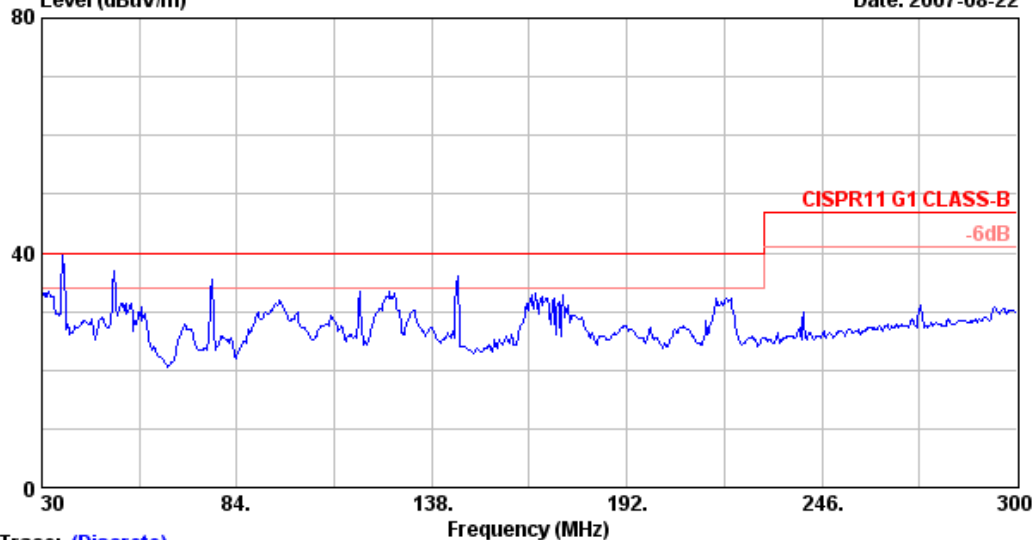
Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 44
Dis. / Ant.	: 3m UHALP9108A(0139)2006	Ant. pol.	: HORIZONTAL
Limit	: CISPR11 G1 CLASS-B		
Env. / Ins.	: E7405A 26°C/60%	Engineer	: Cater Chou
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac/50Hz		
Test Mode	: 1280*1024/75Hz (D-SUB)		
	ADP : LINE(M/N:LE-0312B130W)		



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttmc@ttmc.com.tw

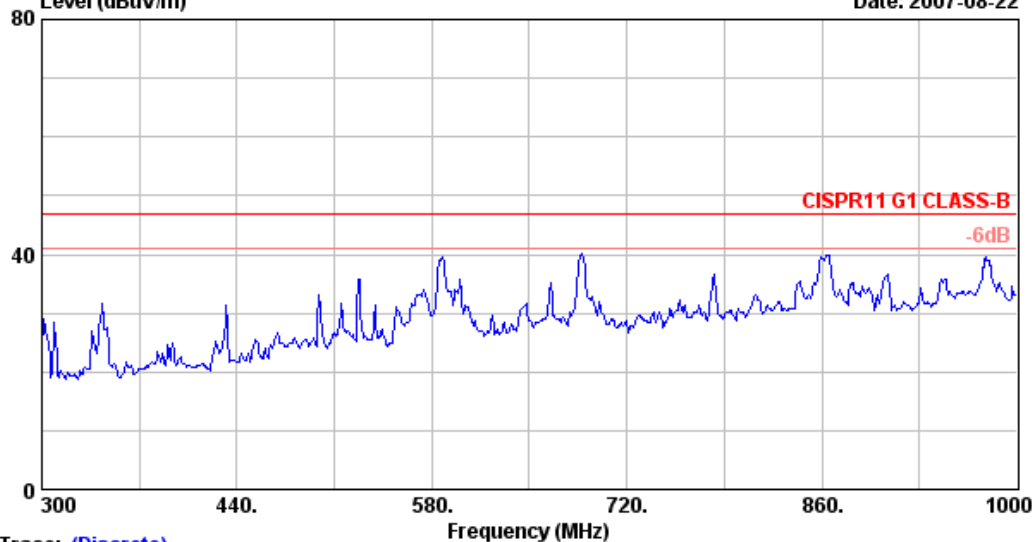
Data: 42 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 42
Dis. / Ant. : 3m VBA6106A(1264)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/75Hz(D-SUB)	
ADP : LINE(M/N:LE-0312B130W)	

Data: 43 File: E:\test-data\d\DIVA\2007\EM961185\em961185-cispr.EMI (48) Date: 2007-08-22



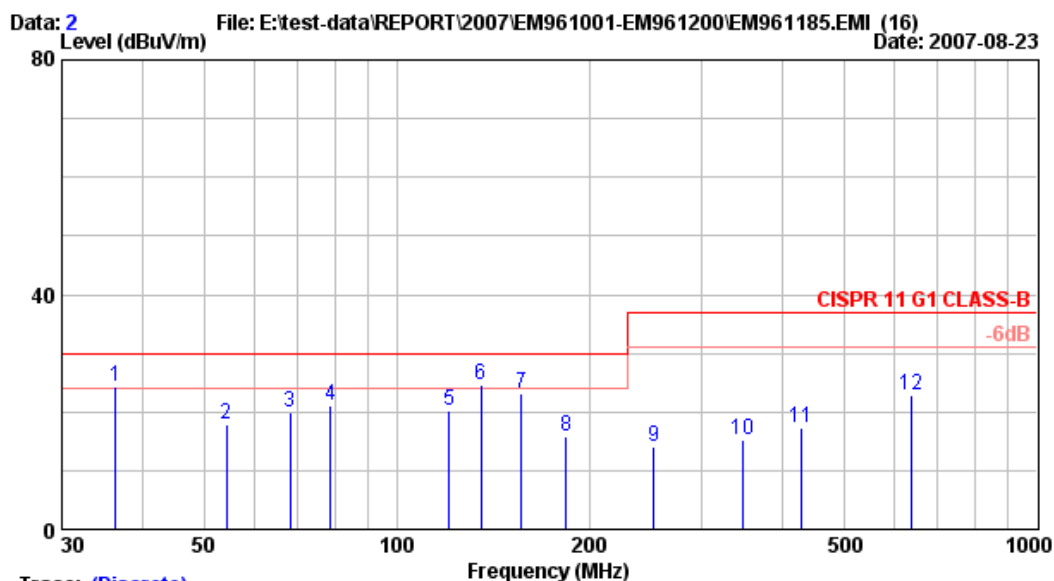
Trace: (Discrete)

Site no. : A/C Chamber	Data no. : 43
Dis. / Ant. : 3m UHALP9108A(0139)2006	Ant. pol. : VERTICAL
Limit : CISPR11 G1 CLASS-B	
Env. / Ins. : E7405A 26°C/60%	Engineer : Cater Chou
EUT : LCD Monitor M/N:ER-192	
Power Rating : 230Vac/50Hz	
Test Mode : 1280*1024/75Hz(D-SUB)	
ADP : LINE(M/N:LE-0312B130W)	

4.7.2. Radiated Disturbance Measurement Results at No. 6 Open Area Test Site



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw



Trace: (Discrete)

Site no.	: NO.6 OPEN SITE	Data no.	: 2
Dis. / Ant.	: 10m CBL6112B(2818)2007	Ant. pol.	: HORIZONTAL
Limit	: CISPR 11 G1 CLASS-B		
Env. / Ins.	: 28°C / 43% ESCS30	Engineer	: Newman yang
EUT	: LCD Monitor M/N:ER-192		
Power Rating	: 230Vac / 50Hz		
Test Mode	: 1280*1024/75Hz D-SUB		
	ADP:AULT M/N:MW16		

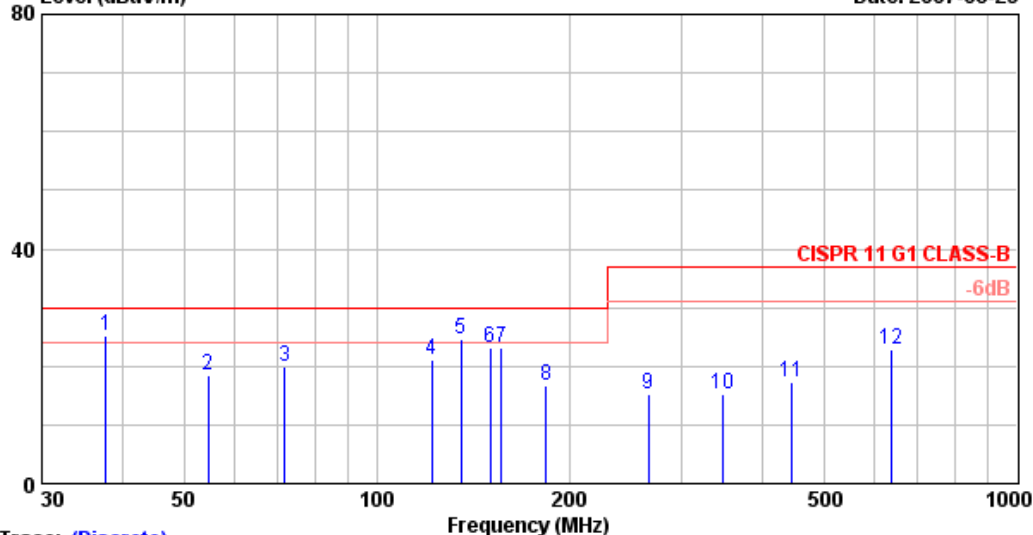
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	36.380	14.47	0.68	9.27	24.42	30.00	5.58	
2	54.200	5.70	0.96	11.35	18.02	30.00	11.98	
3	68.255	6.47	1.18	12.22	19.87	30.00	10.13	
4	78.880	8.07	1.18	11.83	21.07	30.00	8.93	
5	120.630	12.49	1.39	6.35	20.22	30.00	9.78	
6	135.514	11.92	1.45	11.32	24.69	30.00	5.31	*
7	156.505	10.42	1.63	11.12	23.17	30.00	6.83	
8	183.839	9.58	1.78	4.46	15.81	30.00	14.19	
9	252.189	12.80	2.01	-0.87	13.94	37.00	23.06	
10	347.879	14.71	2.52	-2.12	15.11	37.00	21.89	
11	429.899	16.65	2.68	-2.18	17.15	37.00	19.85	
12	634.949	18.97	3.33	0.48	22.78	37.00	14.22	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission is detected at 135.514MHz with corrected signal level of 24.69dBμV/m (limit is 30dBμV/m) when the antenna is at horizontal polarization and is at 4m high and the turn table is at 230°.
 4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 1 File: E:\test-data\REPORT\2007\EM961001-EM961200\EM961185.EMI (16) Date: 2007-08-23



Trace: (Discrete)

Site no. : NO.6 OPEN SITE Data no. : 1
Dis. / Ant. : 10m CBL6112B(2818)2007 Ant. pol. : VERTICAL
Limit : CISPR 11 G1 CLASS-B
Env. / Ins. : 28°C / 43% ESCS30 Engineer : Newman yang
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac / 50Hz
Test Mode : 1280*1024/75Hz D-SUB
ADP:AULT M/N:MW16

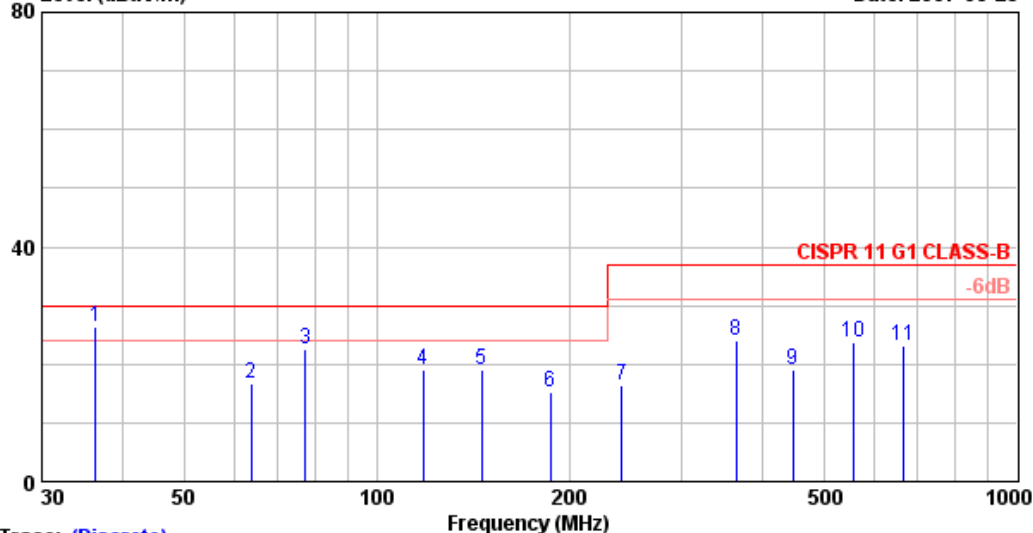
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	37.755	13.73	0.68	10.75	25.16	30.00	4.84	*
2	54.630	5.60	0.97	11.93	18.49	30.00	11.51	
3	71.880	7.47	1.23	11.21	19.90	30.00	10.10	
4	121.880	12.38	1.40	7.18	20.96	30.00	9.04	
5	135.500	11.92	1.45	11.30	24.67	30.00	5.33	
6	150.255	10.82	1.55	10.77	23.15	30.00	6.85	
7	156.500	10.42	1.63	11.04	23.09	30.00	6.91	
8	183.840	9.58	1.78	5.38	16.73	30.00	13.27	
9	265.860	13.60	2.07	-0.48	15.19	37.00	21.81	
10	347.880	14.71	2.52	-1.98	15.25	37.00	21.75	
11	443.570	16.72	2.73	-2.24	17.21	37.00	19.79	
12	634.950	18.97	3.33	0.48	22.78	37.00	14.22	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission is detected at 37.755MHz with corrected signal level of 25.16dBuV/m (limit is 30dBuV/m) when the antenna is at vertical polarization and is at 1m high and the turn table is at 230°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 3 File: E:\test-data\REPORT\2007\EM961001-EM961200\EM961185.EMI (16) Date: 2007-08-23



Trace: (Discrete)

Site no. : NO.6 OPEN SITE Data no. : 3
Dis. / Ant. : 10m CBL6112B(2818)2007 Ant. pol. : HORIZONTAL
Limit : CISPR 11 G1 CLASS-B
Env. / Ins. : 28°C / 43% ESCS30 Engineer : Newman yang
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac / 50Hz
Test Mode : 1280*1024/75Hz D-SUB
ADP:LINE M/N:LE-0312B130W

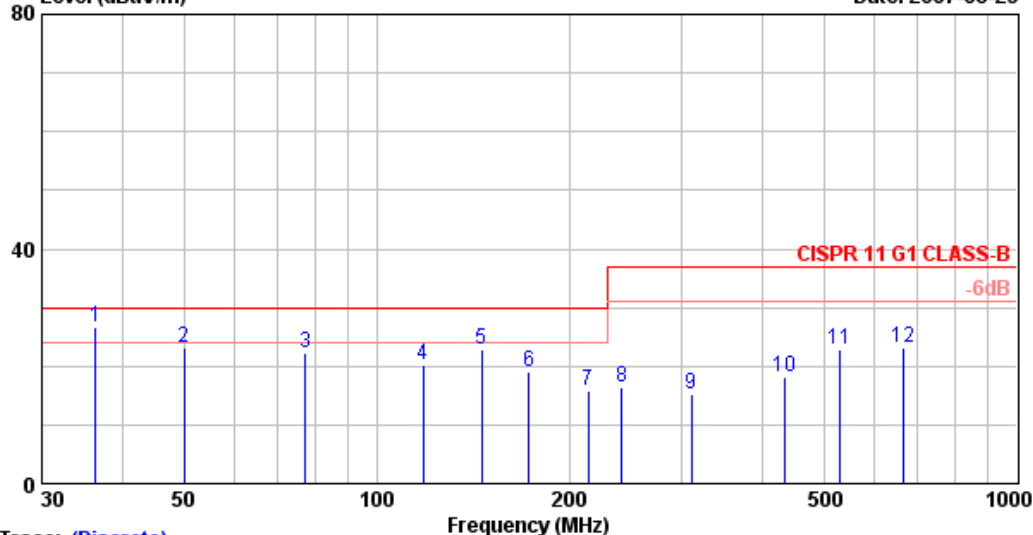
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	36.383	14.47	0.68	11.35	26.50	30.00	3.50	*
2	63.723	5.74	1.10	9.72	16.56	30.00	13.44	
3	77.393	7.90	1.19	13.51	22.60	30.00	7.40	
4	118.405	12.66	1.37	5.15	19.19	30.00	10.81	
5	145.746	11.18	1.50	6.33	19.01	30.00	10.99	
6	186.759	9.49	1.79	3.98	15.26	30.00	14.74	
7	241.440	11.78	1.97	2.72	16.46	37.00	20.54	
8	364.470	15.12	2.53	6.43	24.08	37.00	12.92	
9	446.490	16.74	2.74	-0.58	18.90	37.00	18.10	
10	555.850	18.66	3.07	2.14	23.87	37.00	13.13	
11	665.210	19.17	3.51	0.41	23.09	37.00	13.91	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission is detected at 36.383MHz with corrected signal level of 26.50dBuV/m (limit is 30dBuV/m) when the antenna is at horizontal polarization and is at 4m high and the turn table is at 270°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email: ttemc@ttemc.com.tw

Data: 4 File: E:\test-data\REPORT\2007\EM961001-EM961200\EM961185.EMI (16) Date: 2007-08-23



Trace: (Discrete)

Site no. : NO.6 OPEN SITE Data no. : 4
Dis. / Ant. : 10m CBL6112B(2818)2007 Ant. pol. : VERTICAL
Limit : CISPR 11 G1 CLASS-B
Env. / Ins. : 28°C / 43% ESCS30 Engineer : Newman yang
EUT : LCD Monitor M/N:ER-192
Power Rating : 230Vac / 50Hz
Test Mode : 1280*1024/75Hz D-SUB
ADP:LINE M/N:LE-0312B130W

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	36.388	14.47	0.68	11.47	26.62	30.00	3.38	*
2	50.058	7.98	0.92	14.12	23.02	30.00	6.98	
3	77.398	7.90	1.19	13.29	22.38	30.00	7.62	
4	118.408	12.66	1.37	6.15	20.19	30.00	9.81	
5	145.748	11.18	1.50	10.25	22.93	30.00	7.07	
6	173.086	9.93	1.71	7.28	18.92	30.00	11.08	
7	214.096	9.49	1.87	4.48	15.84	30.00	14.16	
8	241.439	11.78	1.97	2.78	16.52	37.00	20.48	
9	309.788	13.73	2.27	-0.84	15.17	37.00	21.83	
10	432.818	16.65	2.69	-1.29	18.06	37.00	18.94	
11	528.506	18.36	2.98	1.52	22.86	37.00	14.14	
12	665.208	19.17	3.51	0.59	23.27	37.00	13.73	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.
3. The worst emission is detected at 36.388MHz with corrected signal level of 26.62dBuV/m (limit is 30dBuV/m) when the antenna is at vertical polarization and is at 1m high and the turn table is at 325°.
4. 0°was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.

5.3. Limits for Discontinuous Disturbance

5.3.1. Click Limit (EN55014-1)

Frequency range (MHz)	At mains terminals		At load terminals and at additional terminals	
	dB(μ V) Quasi-peak	dB(μ V) Average*	dB(μ V) Quasi-peak	dB(μ V) Average*
0.15 to 0.50	Decreasing linearly with the logarithm of the frequency from : 66 to 56 59 to 46		80	70
0.50 to 5	56	46	74	64
5 to 30	60	50	74	64

Limits listed above apply to discontinuous disturbance from all equipment which produce:

- (1) Disturbances other than clicks, or
- (2) Clicks occurring more frequently than twice in any 2s period, or
- (3) Clicks with a click rate N equal to or greater than 30.

5.3.2. The click limit L_q is the relevant limit L for continuous disturbance, as given in section 5.3.1., increased by:

$$\begin{array}{ll}
 44 \text{ dB} & \text{for } N < 0.2, \text{ or} \\
 20 \log (30/N) \text{ dB} & \text{for } 0.2 \leq N < 30
 \end{array}$$

5.4. EUT's Configuration during Compliance Measurement

The configuration of EUT is same as used in conducted measurement. Please refer to 3.4.

5.5. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 5.2.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	D-Sub	H Pattern, 1600*1200/60Hz
2.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1600*1200/60Hz

5.6. Test Procedure

- 5.6.1. The EUT to be measured is connected to an Artificial Mains Network for the frequency range 150kHz to 30MHz. The test receiver is connected to the Artificial Mains Network and an oscilloscope is connected to the RF output of the test receiver. The cut off frequency of the oscilloscope shall be not lower than the IF of the test receiver.
- 5.6.2. Set the program to let the EUT to produce 40 clicks or, where relevant, 40 switching operations. When, 120 min. after the beginning of the test, 40 clicks have not been produced, the test is stopped at the end of the programme in progress.
- 5.6.3. For frequency range 148.5kHz to 500kHz, using 150kHz to determine click rate N ; and frequency range 500kHz to 30MHz, using 500kHz to determine click rate N .
- 5.6.4. The RF input attenuator of the test receiver is adjusted to the position which causes a 0dB meter indication when a sinusoidal signal with a level equal to the relevant level for continuous disturbance is applied to the RF input of the test receiver. Only those disturbances causing the meter of the test receiver to exceed the 0dB value shall be evaluated.
- 5.6.5. Conduct the First Test Run and record the whole testing time and total clicks to calculate the click limit L_q and click rate N and decide the number of allowed clicks.
- 5.6.6. Conduct the Second Test Run and keep the whole testing time same as 5.6.3 recorded, and record the total click numbers above the click limit L_q .
- 5.6.7. Finally, comparing the total click numbers above the click limit L_q and the number of allowed clicks to decide the EUT is accepted or not.
- 5.6.8. The frequency points 150kHz、 500kHz、 1.4MHz、 30MHz was checked.
- 5.6.9. All the test results are listed in section 5.7.

5.7. Measurement Results

5.7.1. For frequency 150kHz

Date of Test :	Aug. 24, 2007	Temperature :	26
EUT :	LCD Monitor	Humidity :	57%
Test Mode :	D-Sub Input, 1600*1200/60Hz AC Adapter: (1) AULT, M/N MW116 (2)LE, M/N LE-0312B130W	Phase:	Neutral
Frequency :	150kHz	Total Time of Run (T) :	120 Min.
Number of Clicks (n1) :	0	Factor f :	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test :	Aug. 24, 2007	Temperature :	26
EUT :	LCD Monitor	Humidity :	57%
Test Mode :	D-Sub Input, 1600*1200/60Hz AC Adapter: (1) AULT, M/N MW116 (2)LE, M/N LE-0312B130W	Phase:	Line
Frequency :	150kHz	Total Time of Run (T) :	120 Min.
Number of Clicks (n1) :	0	Factor f :	1

After 120min., there is no click happened, therefore, the EUT is accepted.

5.7.2. For frequency 500kHz、 1.4MHz and 30MHz

Date of Test :	Aug. 24, 2007	Temperature :	26
EUT :	LCD Monitor	Humidity :	57%
Test Mode :	D-Sub Input, 1600*1200/60Hz AC Adapter: (1) AULT, M/N MW116 (2)LE, M/N LE-0312B130W	Phase:	Neutral
Frequency :	500kHz	Total Time of Run (T) :	120 Min.
Number of Clicks (n1) :	0	Factor f :	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test :	Aug. 24, 2007	Temperature :	26
EUT :	LCD Monitor	Humidity :	57%
Test Mode :	D-Sub Input, 1600*1200/60Hz AC Adapter: (1) AULT, M/N MW116 (2)LE, M/N LE-0312B130W	Phase:	Line
Frequency :	500kHz	Total Time of Run (T) :	120 Min.
Number of Clicks (n1) :	0	Factor f :	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test :	Aug. 24, 2007	Temperature :	26
EUT :	LCD Monitor	Humidity :	57%
Test Mode :	D-Sub Input, 1600*1200/60Hz AC Adapter: (1) AULT, M/N MW116 (2)LE, M/N LE-0312B130W	Phase:	Neutral
Frequency :	1.4MHz	Total Time of Run (T) :	120 Min.
Number of Clicks (n1) :	0	Factor f :	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test :	Aug. 24, 2007	Temperature :	26
EUT :	LCD Monitor	Humidity :	57%
Test Mode :	D-Sub Input, 1600*1200/60Hz AC Adapter: (1) AULT, M/N MW116 (2)LE, M/N LE-0312B130W	Phase:	Line
Frequency :	1.4MHz	Total Time of Run (T) :	120 Min.
Number of Clicks (n1) :	0	Factor f :	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test :	Aug. 24, 2007	Temperature :	26
EUT :	LCD Monitor	Humidity :	57%
Test Mode :	D-Sub Input, 1600*1200/60Hz AC Adapter: (1) AULT, M/N MW116 (2)LE, M/N LE-0312B130W	Phase:	Neutral
Frequency :	30MHz	Total Time of Run (T) :	120 Min.
Number of Clicks (n1) :	0	Factor f :	1

After 120min., there is no click happened, therefore, the EUT is accepted.

Date of Test :	Aug. 24, 2007	Temperature :	26
EUT :	LCD Monitor	Humidity :	57%
Test Mode :	D-Sub Input, 1600*1200/60Hz AC Adapter: (1) AULT, M/N MW116 (2)LE, M/N LE-0312B130W	Phase:	Line
Frequency :	30MHz	Total Time of Run (T) :	120 Min.
Number of Clicks (n1) :	0	Factor f :	1

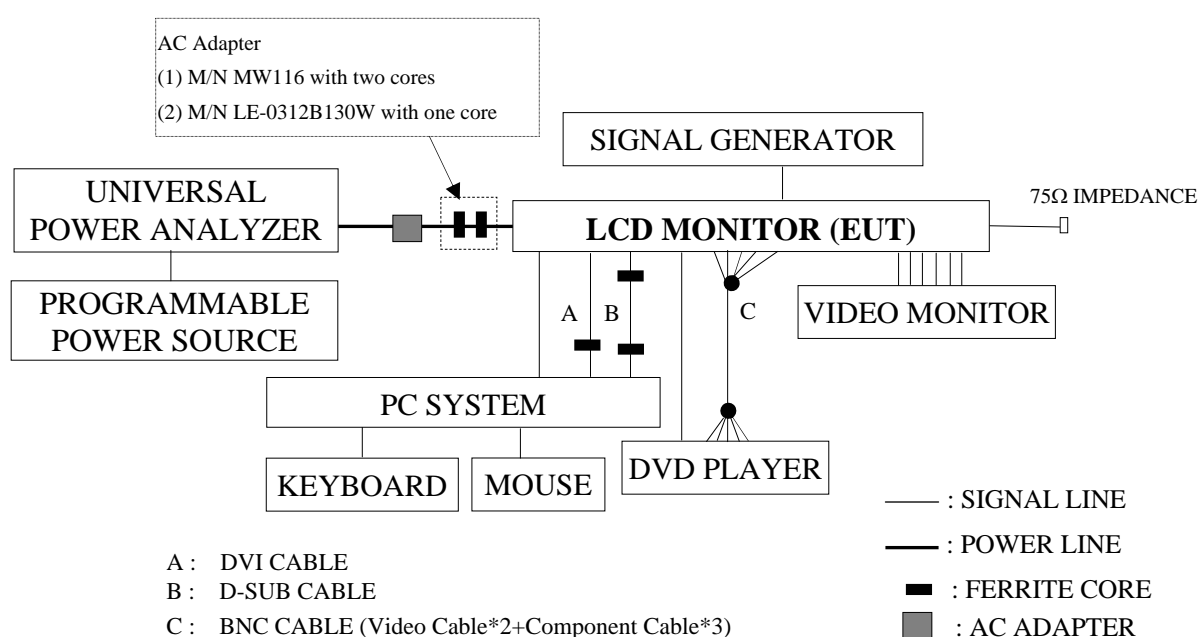
After 120min., there is no click happened, therefore, the EUT is accepted.

6. POWER HARMONICS AND FLICKER MEASUREMENT

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Universal Power Analyzer	Voltech	PM3000A	AL109/9072	May 09, 07'	May 08, 08'
2.	Reference Impedance Network	Voltech	IEC STANDARD 1000-3	IB110/9090	May 09, 07'	May 08, 08'
3.	Programmable Power Source	Chroma	6590	65900086	Apr.09, 07'	Apr.08, 08'

6.2. Block Diagram of Test Setup



6.3. Test Standard

EN 61000-3-2/2000 +A2/2005 and EN 61000-3-3/1995+ A1/2001+ A2/2005

6.4. EUT's Configuration during Compliance Measurement

6.4.1. LCD Monitor (EUT) : As in Section 3.4.1.

6.4.2. Supporting System : As in Section 2.2.

(For Harmonic、Flicker Measurements and EMS Immunity Tests)

6.5. Operating Condition of EUT

Same as conducted measurement which was listed in 3.5. except the test set up replaced by section 6.2.

6.6. Test Results

PASSED. (Complied with Class D limit)

EUT with following test modes were performed during this section testing and all the test results are listed in next pages.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	DVI	H Pattern, 1280*1024/60Hz
2.	LE, M/N LE-0312B130W	DVI	H Pattern, 1280*1024/60Hz

Product: LCD Monitor		2007 Aug 27 11:38am
Model no: ER-192		Page 1 of 1
Description: Test Mode:1280*1024/60Hz/DVI/Adapter:AULT M/N:MW16		
Test Date: 2007 Aug 27 10:37am		
Result Name: ER-192		
Type of Test: EN61000:2001 Harmonics inc. interharmonics to EN61000-4-7		
Limits: Class D		
Power Analyzer: Voltech PM6000 v1.15.05RC1 s/n 100006700006		
AC Source: Mains / Manual Source		
Harmonic Results Against Chosen Limits:		Notes:
PASS		
Test Parameter Details	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	231.1845
Specified Power:	50.0000	49.9821
Fundamental Current:	0.0000	0.2329
Power Factor:	0.0000	0.8892
Average Input Current:		0.2431
Maximum POHC:		0.0089
POHC Limit:		0.0215
Maximum THC:		0.0701
Minimum Power:	0	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

DIVA	
Product: LCD Monitor	2007 Aug 27 11:36am
Model no: ER-192	Page 1 of 1
Description: Test Mode:1280*1024/60Hz/DVI/Adapter:AULT M/N:MW16	
Result Name: ER-192	
Voltech IEC61000-3 Windows Software 1.04.02	Test Date: 2007 Aug 27 10:37am
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2001)	
Power Analyzer: Voltech PM6000 v1.15.05RC1 s/n 100006700006	
AC Source: Mains / Manual Source	
Overall Result:	
PASS	

Class	Class D
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	None	None	0.972mA		1.016mA		N/A	3	170.0mA	255.0mA	64.84mA	✓✓	64.98mA	✓	Pass
4	None	None	0.335mA		0.375mA		N/A	5	95.00mA	142.5mA	16.71mA	✓✓	16.74mA	✓	Pass
6	None	None	0.253mA		0.273mA		N/A	7	50.00mA	75.00mA	9.910mA	✓✓	9.952mA	✓	Pass
8	None	None	0.152mA		0.186mA		N/A	9	25.00mA	37.50mA	7.369mA	✓✓	7.387mA	✓	Pass
10	None	None	0.161mA		0.179mA		N/A	11	17.50mA	26.25mA	8.414mA	✓✓	8.433mA	✓	Pass
12	None	None	0.333mA		0.361mA		N/A	13	14.80mA	22.21mA	5.978mA	✓✓	5.995mA	✓	Pass
14	None	None	0.163mA		0.183mA		N/A	15	12.83mA	19.25mA	4.652mA	✓✓	4.668mA	✓	N/A
16	None	None	0.142mA		0.161mA		N/A	17	11.32mA	16.98mA	4.971mA	✓✓	4.986mA	✓	N/A
18	None	None	0.171mA		0.194mA		N/A	19	10.13mA	15.19mA	4.438mA	✓✓	4.452mA	✓	N/A
20	None	None	0.142mA		0.156mA		N/A	21	9.166mA	13.75mA	3.452mA	✓✓	3.467mA	✓	N/A
22	None	None	0.153mA		0.167mA		N/A	23	8.369mA	12.55mA	3.498mA	✓✓	3.512mA	✓	N/A
24	None	None	0.246mA		0.262mA		N/A	25	7.700mA	11.55mA	3.441mA	✓✓	3.453mA	✓	N/A
26	None	None	0.163mA		0.178mA		N/A	27	7.129mA	10.69mA	2.825mA	✓✓	2.838mA	✓	N/A
28	None	None	0.140mA		0.154mA		N/A	29	6.637mA	9.956mA	2.674mA	✓✓	2.696mA	✓	N/A
30	None	None	0.160mA		0.172mA		N/A	31	6.209mA	9.314mA	2.723mA	✓✓	2.740mA	✓	N/A
32	None	None	0.146mA		0.158mA		N/A	33	5.833mA	8.750mA	2.415mA	✓✓	2.429mA	✓	N/A
34	None	None	0.161mA		0.178mA		N/A	35	5.500mA	8.250mA	2.211mA	✓✓	2.225mA	✓	N/A
36	None	None	0.149mA		0.162mA		N/A	37	5.202mA	7.804mA	2.222mA	✓✓	2.234mA	✓	N/A
38	None	None	0.168mA		0.182mA		N/A	39	4.935mA	7.403mA	2.174mA	✓✓	2.188mA	✓	N/A
40	None	None	0.147mA		0.160mA		N/A								

<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

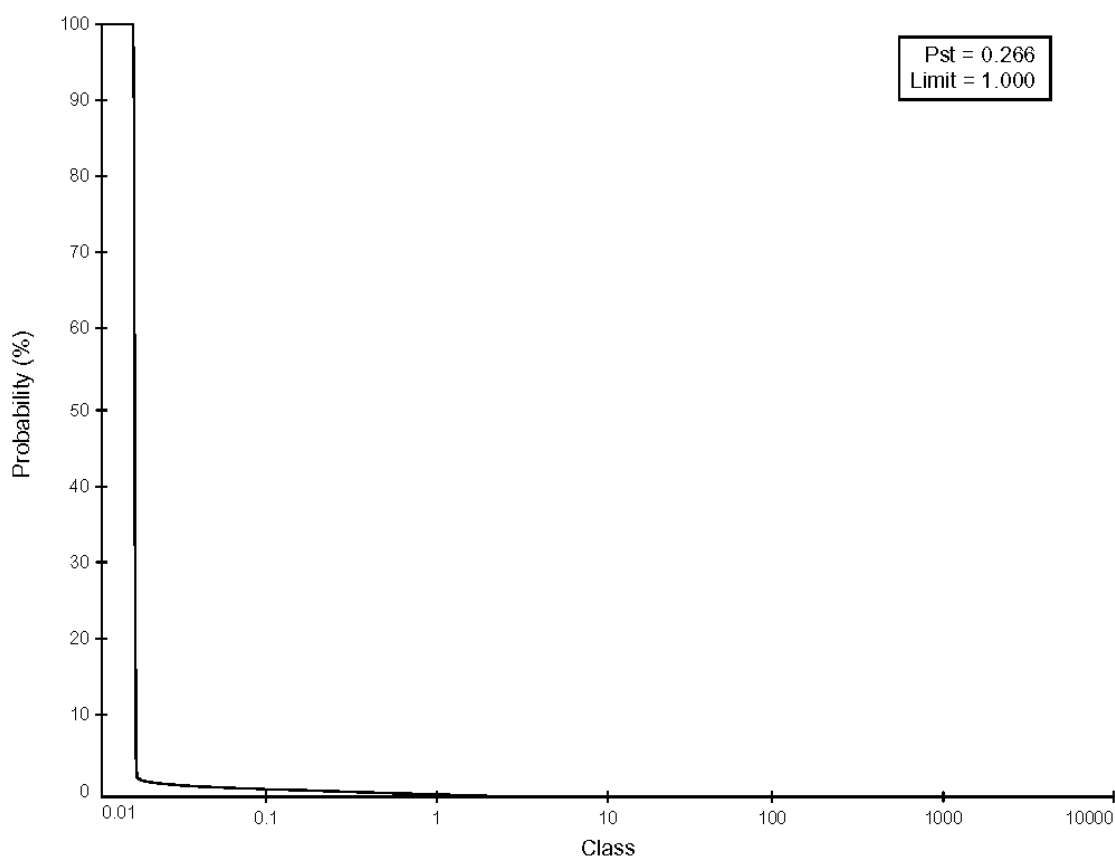
N/A : Harmonic current below 0.6% of rated current or 5mA, whichever is greater, are disregarded.

DIVA	
Product: LCD Monitor	2007 Aug 27 11:06am
Model no: ER-192	Page 1 of 1
Description: Test Mode:1280*1024/60Hz/DVI/Adapter:AULT M/N:MW16	
Result Name: ER-192	
Voltech IEC61000-3 Windows Software 1.04.02	Test Date: 2007 Aug 27 10:45am
Type of Test: Flickermeter Test - Table	
Power Analyzer: Voltech PM6000 v1.15.05RC1 s/n 100006700006	
AC Source: Mains / Manual Source	
Overall Result:	Notes:
PASS	Measurement method - Voltage

	Pst	dc (%)	dmax (%)	d(t) > 3.3%(ms)
Limit	1.000	3.300	4.000	500
Reading 1	0.266	0.002	0.322	0

DIVA	
Product: LCD Monitor	2007 Aug 27 11:05am
Model no: ER-192	Page 1 of 65535
Description: Test Mode:1280*1024/60Hz/DVI/Adapter:AULT M/N:MW16	
Result Name: ER-192	
Voltech IEC61000-3 Windows Software 1.04.02	Test Date: 2007 Aug 27 10:45am
Type of Test: Flickermeter Test - Pst Curve	
Power Analyzer: Voltech PM6000 v1.15.05RC1 s/n 100006700006	
AC Source: Mains / Manual Source	
Overall Result:	Notes:
PASS	Measurement method - Voltage

Pst Curve 1



Product: LCD Monitor		2007 Aug 29 6:05pm
Model no: ER-192		Page 1 of 1
Description: Test Mode:1280*1024/60Hz/DVI/Adapter:LIEN M/N:LE-0312B130W		
Test Date: 2007 Aug 29 5:46pm		
Result Name: ER-192		
Type of Test: EN61000:2001 Harmonics inc. interharmonics to EN61000-4-7		
Limits: Class D		
Power Analyzer: Voltech PM6000 v1.15.05RC1 s/n 100006700006		
AC Source: Mains / Manual Source		
Harmonic Results		Notes: Voltage Crest Factor outside permitted limits
Against Chosen Limits:		
PASS		
Test Parameter Details		
	User Entered	Measured
Operating Frequency:	50	49.9840
Operating Voltage:	230	231.1989
Specified Power:	59.0000	58.9336
Fundamental Current:	0.0000	0.2834
Power Factor:	0.0000	0.8740
Average Input Current:		0.2915
Maximum POHC:		0.0117
POHC Limit:		0.0254
Maximum THC:		0.0689
Minimum Power:	0	
Class Multiplier:	1.0000	
Test Duration:	00:02:30	

DVIA	
Product: LCD Monitor	2007 Aug 29 6:05pm
Model no: ER-192	Page 1 of 1
Description: Test Mode:1280*1024/60Hz/DVI/Adapter:LIEN M/N:LE-0312B130W	
Result Name: ER-192	
Voltech IEC61000-3 Windows Software 1.04.02	Test Date: 2007 Aug 29 5:46pm
Type of Test: Fluctuating Harmonics Test - Worst Case Table (2001)	
Power Analyzer: Voltech PM6000 v1.15.05RC1 s/n 100006700006	
AC Source: Mains / Manual Source	
Overall Result:	Notes:
PASS	Voltage Crest Factor outside permitted limits

Class	Class D
Class Multiplier	1

Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL	Harm	Limit 1	Limit 2	Average Reading	<L1 <L2	Max Reading	<L2	Pass FAIL
2	None	None	0.910mA		1.067mA		N/A	3	200.5mA	300.8mA	55.50mA	✓ ✓	56.34mA	✓	Pass
4	None	None	0.920mA		1.071mA		N/A	5	112.0mA	168.1mA	30.41mA	✓ ✓	30.72mA	✓	Pass
6	None	None	0.868mA		1.016mA		N/A	7	59.00mA	88.50mA	15.63mA	✓ ✓	15.85mA	✓	Pass
8	None	None	0.847mA		1.015mA		N/A	9	29.50mA	44.25mA	7.142mA	✓ ✓	7.691mA	✓	Pass
10	None	None	0.812mA		0.957mA		N/A	11	20.65mA	30.97mA	8.766mA	✓ ✓	9.169mA	✓	Pass
12	None	None	0.844mA		0.968mA		N/A	13	17.47mA	26.20mA	8.222mA	✓ ✓	8.355mA	✓	Pass
14	None	None	0.778mA		0.910mA		N/A	15	15.14mA	22.71mA	4.880mA	✓ ✓	5.039mA	✓	N/A
16	None	None	0.770mA		0.887mA		N/A	17	13.36mA	20.04mA	4.614mA	✓ ✓	4.800mA	✓	N/A
18	None	None	0.754mA		0.877mA		N/A	19	11.95mA	17.93mA	5.424mA	✓ ✓	5.566mA	✓	Pass
20	None	None	0.739mA		0.858mA		N/A	21	10.81mA	16.22mA	4.890mA	✓ ✓	5.124mA	✓	N/A
22	None	None	0.727mA		0.821mA		N/A	23	9.876mA	14.81mA	3.413mA	✓ ✓	3.567mA	✓	N/A
24	None	None	0.744mA		0.850mA		N/A	25	9.085mA	13.62mA	3.786mA	✓ ✓	3.903mA	✓	N/A
26	None	None	0.706mA		0.795mA		N/A	27	8.412mA	12.61mA	3.998mA	✓ ✓	4.148mA	✓	N/A
28	None	None	0.703mA		0.805mA		N/A	29	7.832mA	11.74mA	3.267mA	✓ ✓	3.385mA	✓	N/A
30	None	None	0.687mA		0.776mA		N/A	31	7.327mA	10.99mA	3.501mA	✓ ✓	3.695mA	✓	N/A
32	None	None	0.691mA		0.791mA		N/A	33	6.883mA	10.32mA	3.566mA	✓ ✓	3.690mA	✓	N/A
34	None	None	0.672mA		0.791mA		N/A	35	6.490mA	9.735mA	3.123mA	✓ ✓	3.300mA	✓	N/A
36	None	None	0.676mA		0.754mA		N/A	37	6.139mA	9.208mA	3.156mA	✓ ✓	3.257mA	✓	N/A
38	None	None	0.679mA		0.783mA		N/A	39	5.824mA	8.736mA	3.132mA	✓ ✓	3.334mA	✓	N/A
40	None	None	0.672mA		0.776mA		N/A								

<L1 : Reading is below limit 1.

<L2 : Reading is below limit 2.

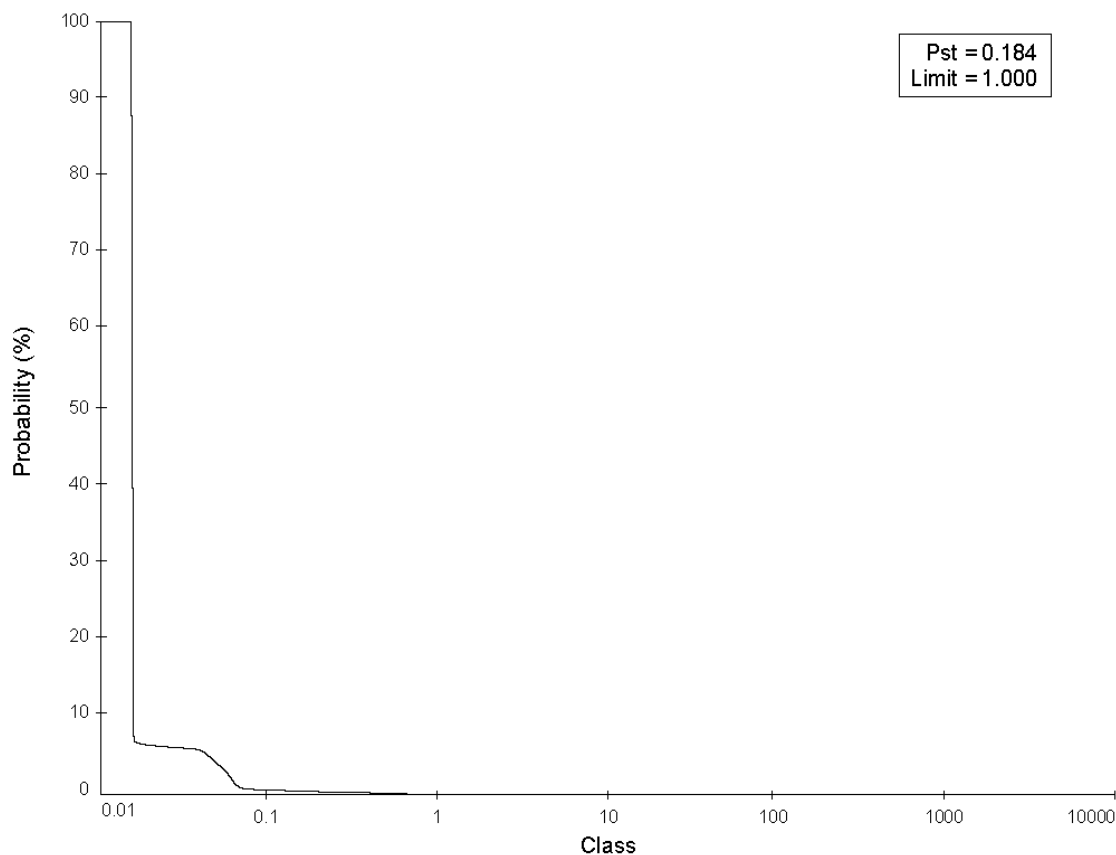
N/A : Harmonic current below 0.6% of rated current or 5mA, whichever is greater, are disregarded.

DIVA		
Product:	LCD Monitor	2007 Aug 29 6:01pm
Model no:	ER-192	Page 1 of 1
Description:	Test Mode:1280*1024/60Hz/DVI/Adapter:LIEN M/N:LE-0312B130W	
Result Name:	ER-192	
Voltech IEC61000-3 Windows Software 1.04.02	Test Date: 2007 Aug 29 5:50pm	
Type of Test:	Flickermeter Test - Table	
Power Analyzer:	Voltech PM6000 v1.15.05RC1 s/n 100006700006	
AC Source:	Mains / Manual Source	
Overall Result:	Notes: Measurement method - Voltage	
PASS		

	Pst	dc (%)	dmax (%)	d(t) > 3.3%(ms)
Limit	1.000	3.300	4.000	500
Reading 1	0.184	0.003	0.308	0

DIVA		
Product:	LCD Monitor	2007 Aug 29 6:00pm
Model no:	ER-192	Page 1 of 65535
Description:	Test Mode:1280*1024/60Hz/DVI/Adapter:LIEN M/N:LE-0312B130W	
Result Name:	ER-192	
Voltech IEC61000-3 Windows Software 1.04.02	Test Date: 2007 Aug 29 5:50pm	
Type of Test:	Flickermeter Test - Pst Curve	
Power Analyzer:	Voltech PM6000 v1.15.05RC1 s/n 100006700006	
AC Source:	Mains / Manual Source	
Overall Result:	Notes: Measurement method - Voltage	
PASS		

Pst Curve 1



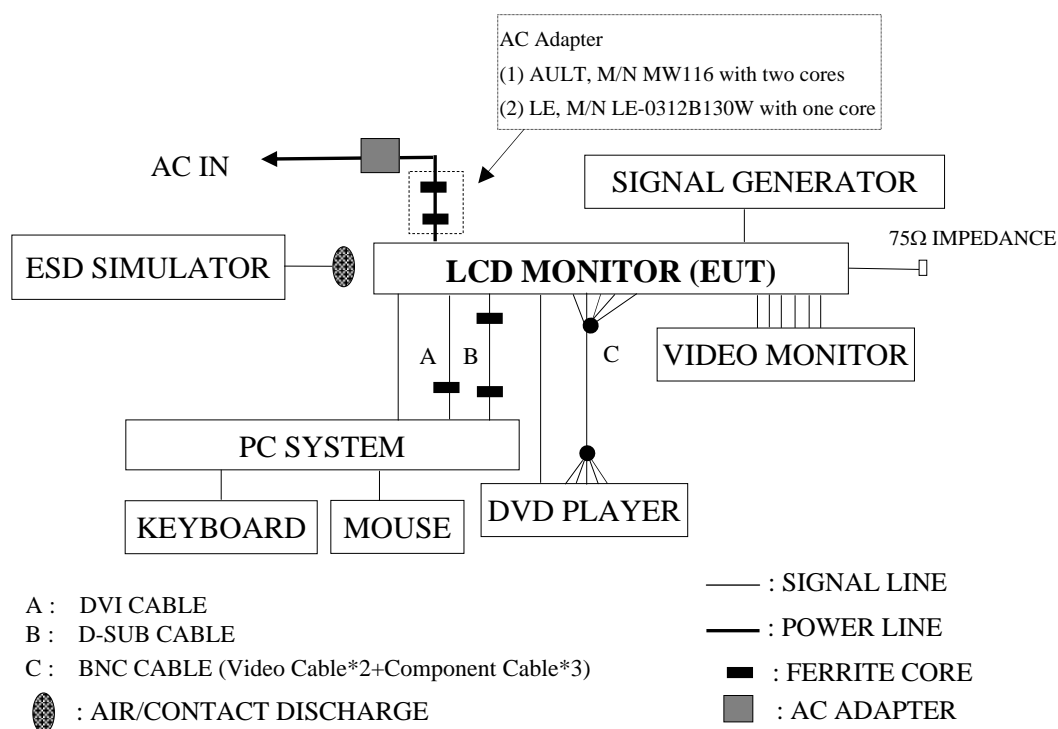
7. ELECTROSTATIC DISCHARGE IMMUNITY TEST

7.1. Test Equipment

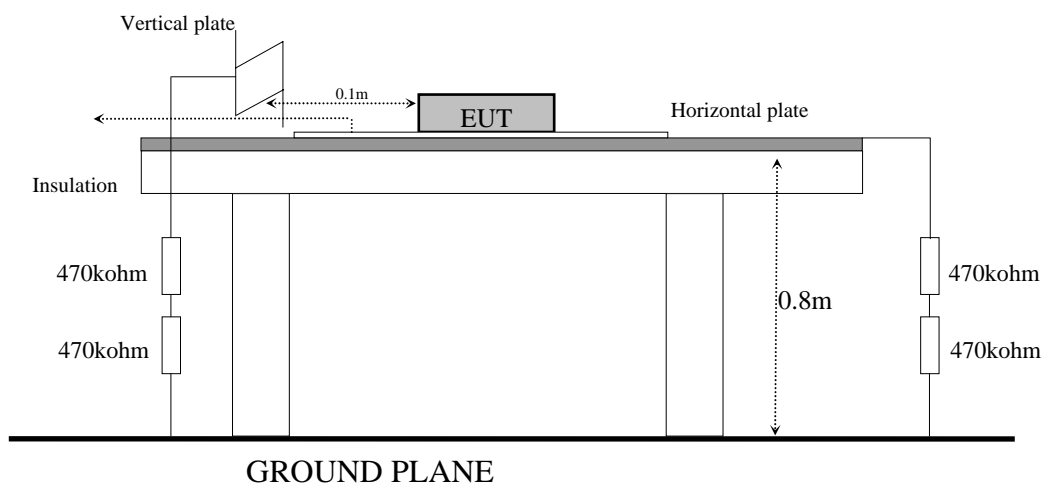
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	ESD Simulator	EM TEST	dito	V0503100055	Feb.12, 07'	Feb.11, 08'

7.2. Block Diagram of Test Setup

7.2.1. Test Setup Diagram (1)



7.2.2. Test Setup Diagram (2)



7.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-2/2001)

7.4. Severity Levels and Performance Criterion

Equipment and systems shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test levels of $\pm 2\text{kV}$, $\pm 4\text{kV}$ and $\pm 8\text{kV}$ for air discharge and $\pm 2\text{kV}$, $\pm 4\text{kV}$ and $\pm 6\text{kV}$ for contact discharge.

7.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

7.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 7.2.

7.7. Test Procedure

7.7.1. Air Discharge :

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the ESD generator discharge electrode shall be removed from the EUT. The generator is then retrigged for a new single discharge and repeated 10 discharges each at positive and negative polarity for each preselected test point. This procedure shall be repeated until all the air discharge completed.

7.7.2. Contact Discharge :

All the procedure shall be same as 7.7.1. except that the tip of the discharge electrode shall touch the EUT's conductive surfaces before the discharge switch is operated.

7.7.3. Indirect discharge for horizontal coupling plane :

At least 10 discharges each at positive and negative polarity shall be applied to the horizontal coupling plane, at points on each side of the EUT. The ESD generator positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

7.7.4. Indirect discharge for vertical coupling plane :

At least 10 discharges each at positive and negative polarity shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

7.7.5. For above tests, the voltage was increased from the minimum to the selected test level.

7.8. Test Results

PASSED.

EUT with following test modes were performed during this section testing and all the test results are listed in next page.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	D-Sub	H Pattern, 1280*1024/75Hz
2.		DVI	H Pattern, 1280*1024/60Hz
3.		AV IN	Color Bar Image
4.		S IN	Color Bar Image
5.		Component Video IN	Color Bar Image
6.		SDI IN	Color Bar Image
7.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz
8.		DVI	H Pattern, 1280*1024/60Hz
9.		AV IN	Color Bar Image
10.		S IN	Color Bar Image
11.		Component Video IN	Color Bar Image
12.		SDI IN	Color Bar Image

Electrostatic Discharge Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date : 09/03/2007

Applicant : <u>DIVA Laboratories Ltd.</u>		Test Date : <u>Aug. 28, 2007</u>	
EUT : <u>LCD Monitor</u>		Temperature : <u>24</u>	
Power Supply : <u>AC 230V, 50Hz (Via AC Adapter)</u>		Humidity : <u>49</u> %	
Working Condition : <u>See Section 3.5.</u>		Test Modes : <u>Modes 1~12</u>	

Item	Amount of Discharge for per voltage	Test Voltage	Results
Contact Discharge	340	+2kV; +4kV; +6kV -2kV; -4kV; -6kV	Pass Pass
Air Discharge	0	+2kV; +4kV; +8kV -2kV; -4kV; -8kV	Pass, Note Pass, Note
Indirect Discharge (HCP)	20	+2kV; +4kV; +6kV -2kV; -4kV; -6kV	Pass Pass
Indirect Discharge (VCP Front)	20	+2kV; +4kV; +6kV -2kV; -4kV; -6kV	Pass Pass
Indirect Discharge (VCP Left)	20	+2kV; +4kV; +6kV -2kV; -4kV; -6kV	Pass Pass
Indirect Discharge (VCP Back)	20	+2kV; +4kV; +6kV -2kV; -4kV; -6kV	Pass Pass
Indirect Discharge (VCP Right)	20	+2kV; +4kV; +6kV -2kV; -4kV; -6kV	Pass Pass

Measurement Points	1. Screw	Contact Discharge	11. R Out	Contact Discharge
	2. Screw	Contact Discharge	12. R In	Contact Discharge
	3. Metal	Contact Discharge	13. DVI	Contact Discharge
	4. SDI Out	Contact Discharge	14. GPI	Contact Discharge
	5. SDI In	Contact Discharge	15. VGA	Contact Discharge
	6. CVBS Out	Contact Discharge	16. DC In	Contact Discharge
	7. S-Video Out	Contact Discharge	17. Metal	Contact Discharge
	8. Xs Out	Contact Discharge	18. LED	Air Discharge
	9. G Out	Contact Discharge	19. Button	Air Discharge
	10. B Out	Contact Discharge		
Please refer to the Photos of ESD Test Points (1) Points 1~17 for Contact Discharge. (2) Points 18~19 for Air Discharge, that points can't be discharged by testing ESD gun, so it's no affection.				

Note: Due to the EUT only conductive surfaces. It's unnecessary to test air discharge.

8. RF FIELD STRENGTH IMMUNITY TEST

8.1. Test Equipment

8.1.1. For 80MHz ~ 1000MHz

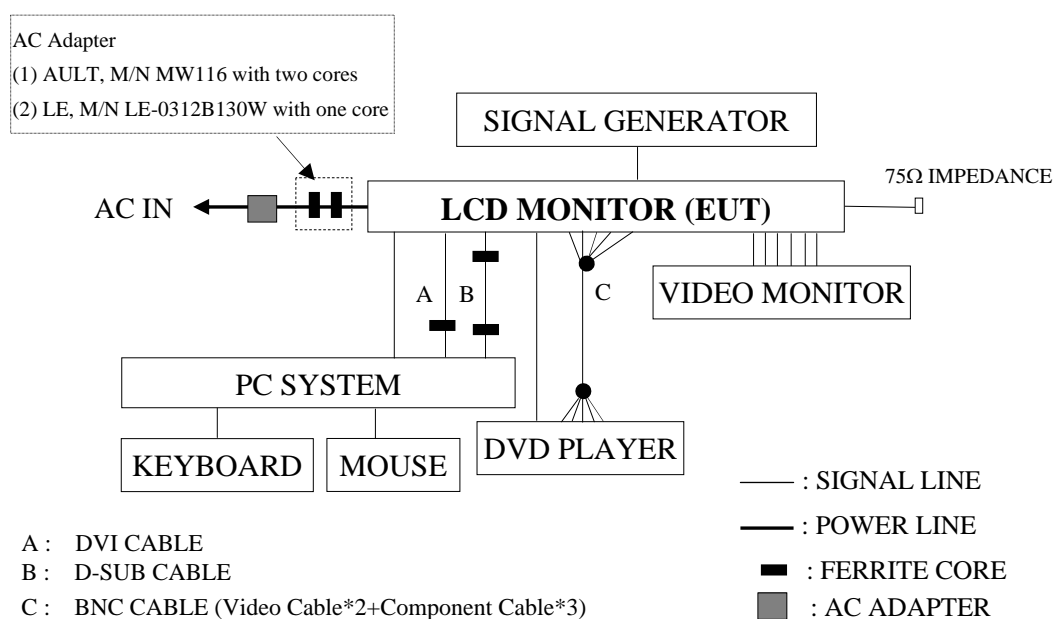
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Signal Generator	Rohde & Schwarz	SML03	103251	May 04, 07'	May 03, 08'
2.	Power Amplifier	A & R	25W1000M7	13261	N/A	N/A
3.	Power Antenna	A & R	AT1080	13002	N/A	N/A
4.	Power Sensor	Agilent	E9327A	US40441766	Feb.14, 07'	Feb.13, 08'
5.	Power Monitor	Agilent	E4417A	GB41291797	Feb.14, 07'	Feb.13, 08'
6.	Direction Coupler	A & R	DC6180	19323	Jun.08, 07'	Jun.07, 08'

8.1.2. For 1GHz ~ 2.5GHz

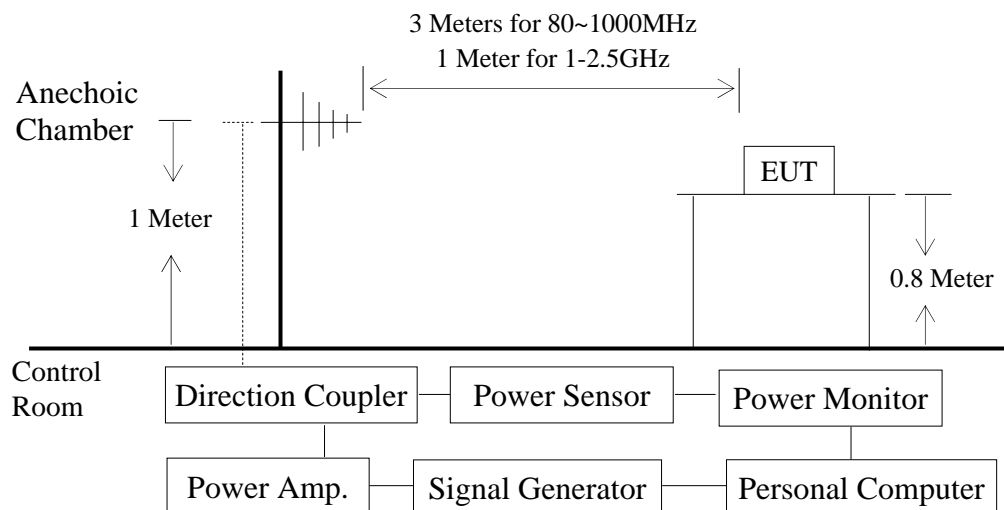
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Signal Generator	Rohde & Schwarz	SML03	103251	May 04, 07'	May 03, 08'
2.	Power Amplifier	A & R	120SG3	3039655	N/A	N/A
3.	Power Antenna	A & R	AT4002A	304290	N/A	N/A
4.	Power Sensor	Agilent	E9327A	US40441766	Feb.14, 07'	Feb.13, 08'
5.	Power Monitor	Agilent	E4417A	GB41291797	Feb.14, 07'	Feb.13, 08'
6.	Direction Coupler	A/R	DC7144	304087	Jun. 08, 07'	Jun. 07, 08'

8.2. Block Diagram of Test Setup

8.2.1. Block Diagram of connection between EUT and simulators.



8.2.2. R/S Test Setup



8.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-3/2006)

8.4. Severity Levels and Performance Criterion

Equipment and systems that are not life-supporting equipment and systems except as specified in EN 60601-1-2 section 36.202.3 a) 3) or in the exclusion band as specified in EN 60601-1-2 section 36.202.3 a) 4) shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at an immunity test level of 3V/m over the frequency range 80MHz to 2.5GHz.

8.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

8.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 8.2.

8.7. Test Procedure

The field sensor is placed on the EUT table (0.8 meter above the ground) which is 3 or 1 meters away from the transmitting antenna. Through the signal generator, power amplifier and transmitting antenna to produce a uniformity field strength (3V/m measured by field sensor) around the EUT table from frequency range 80 - 1000 MHz & 1000 - 2500MHz and records the signal generator's output level at the same time for whole measured frequency range. Then, put EUT and its simulators on the EUT turn table and keep them 3 meters away from the transmitting antenna which is mounted on an antenna tower and fixes at 1 meter height above the ground. Using the recorded signal generator's output level to measure the EUT from frequency range 80 - 1000 MHz & 1000 - 2500MHz and both horizontal & vertical polarization of antenna must be set and measured. Each of the four sides of EUT must be faced this transmitting antenna and measures individually.

A CCD camera was put inside the chamber and through its display to monitor the EUT operational situation to judge the EUT Compliance criterion during measurement.

All the scanning conditions are as follows :

Condition of Test	Remarks
1. Field Strength	3 V/m
2. Amplitude Modulated	1kHz, 80%AM
3. Scanning Frequency	80 - 1000 MHz & 1000 - 2500MHz
4. Step Size	1% increments
5. The Rate of Sweep	0.0015 decade/s
6. Dwell Time	3 Sec.

8.8. Test Results

PASSED.

EUT with following test modes were performed during this section testing and all the test results are listed in next page.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	D-Sub	H Pattern, 1280*1024/75Hz
2.		DVI	H Pattern, 1280*1024/60Hz
3.		AV IN	Color Bar Image
4.		S IN	Color Bar Image
5.		Component Video IN	Color Bar Image
6.		SDI IN	Color Bar Image
7.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz
8.		DVI	H Pattern, 1280*1024/60Hz
9.		AV IN	Color Bar Image
10.		S IN	Color Bar Image
11.		Component Video IN	Color Bar Image
12.		SDI IN	Color Bar Image

RF Field Strength Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date : 09/03/2007

Applicant : <u>DIVA Laboratories Ltd.</u> EUT : <u>LCD Monitor</u> Power Supply : <u>AC 230V, 50Hz (Via AC Adapter)</u> Working Condition : <u>See Section 3.5.</u>			Test Date : <u>Aug. 29, 2007</u> Temperature : <u>29</u> Humidity : <u>45</u> % Test Modes : <u>Modes 1~12</u>	
Frequency Range	Position (Angle)	Polarity (H or V)	Field Strength (V/m)	Results
80 ~ 1000 (MHz)	0 °	H	3V/m + Modulated	Pass
80 ~ 1000 (MHz)	90 °	H	3V/m + Modulated	Pass
80 ~ 1000 (MHz)	180 °	H	3V/m + Modulated	Pass
80 ~ 1000 (MHz)	270 °	H	3V/m + Modulated	Pass
80 ~ 1000 (MHz)	0 °	V	3V/m + Modulated	Pass
80 ~ 1000 (MHz)	90 °	V	3V/m + Modulated	Pass
80 ~ 1000 (MHz)	180 °	V	3V/m + Modulated	Pass
80 ~ 1000 (MHz)	270 °	V	3V/m + Modulated	Pass
1 ~ 2.5 (GHz)	0 °	H	3V/m + Modulated	Pass
1 ~ 2.5 (GHz)	90 °	H	3V/m + Modulated	Pass
1 ~ 2.5 (GHz)	180 °	H	3V/m + Modulated	Pass
1 ~ 2.5 (GHz)	270 °	H	3V/m + Modulated	Pass
1 ~ 2.5 (GHz)	0 °	V	3V/m + Modulated	Pass
1 ~ 2.5 (GHz)	90 °	V	3V/m + Modulated	Pass
1 ~ 2.5 (GHz)	180 °	V	3V/m + Modulated	Pass
1 ~ 2.5 (GHz)	270 °	V	3V/m + Modulated	Pass
Remark: No error occurred.				

9. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

9.1. Test Equipment

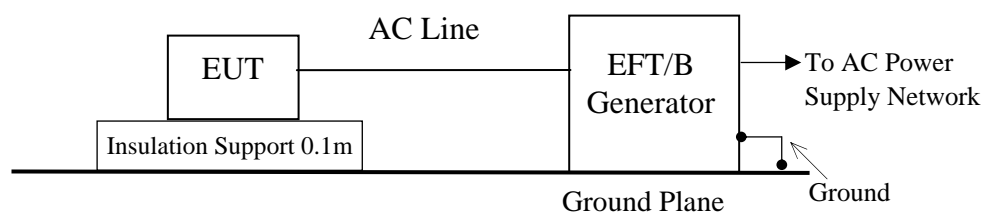
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Control Center	Keytek	E103	9506267	N/A	N/A
2.	EFT Generator	Keytek	E411	9506182	Jun.13, 07'	Jun.12, 08'
3.	EFT Coupler / Decoupler	Keytek	E4551	9506216	Jun.13, 07'	Jun.12, 08'

9.2. Block Diagram of Test Setup

9.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

9.2.2. EFT Test Setup



Remark: Combination wave generator and decoupling networks are included in test.

9.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-4/2006)

9.4. Severity Levels and Performance Criterion

Equipment and systems shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test level of $\pm 2\text{kV}$ for a.c. and d.c. power lines and $\pm 1\text{kV}$ for signal and interconnecting cables.

9.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

9.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 9.2.

9.7. Test Procedure

The EUT and its simulators and all cables were placed 0.1m high above the ground reference plane, which was a min. 1m*1m metallic sheet with 0.65mm minimum thickness. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

9.7.1. For input and output AC power ports :

The EUT was connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines, and the length of the power line between the coupling device and the EUT shall be 0.5m or less . Both polarities of the test voltage should be applied during compliance test and the duration of the test can't less than 1min.

9.7.2. For signal lines and control lines ports :

The interface cables' length is less than 3m, therefore, it's unnecessary to measure.

9.7.3. For DC input and DC output power ports :

No DC ports. It's unnecessary to measure.

9.8. Test Results

PASSED.

EUT with following test modes were performed during this section testing and all the test results are listed in next page.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	D-Sub	H Pattern, 1280*1024/75Hz
2.		DVI	H Pattern, 1280*1024/60Hz
3.		AV IN	Color Bar Image
4.		S IN	Color Bar Image
5.		Component Video IN	Color Bar Image
6.		SDI IN	Color Bar Image
7.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz
8.		DVI	H Pattern, 1280*1024/60Hz
9.		AV IN	Color Bar Image
10.		S IN	Color Bar Image
11.		Component Video IN	Color Bar Image
12.		SDI IN	Color Bar Image

Electrical Fast Transient/Burst Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date : 09/03/2007

Applicant : <u>DIVA Laboratories Ltd.</u> EUT : <u>LCD Monitor</u> Power Supply : <u>AC 230V, 50Hz (Via AC Adapter)</u> Working Condition : <u>See Section 3.5.</u>					Test Date : <u>Aug. 28, 2007</u> Temperature : <u>24</u> Humidity : <u>49 %</u> Test Modes : <u>Modes 1~12</u>				
Inject Place: Power Supply Line					Inject Place : I/O Cable				
Inject Line	Voltage kV	Inject Time(s)	Inject Method	Results	Inject Line	Voltage kV	Inject Time(s)	Inject Method	Results
L1	+0.5 ; 1 ; 2	60	Direct	Pass				Direct	
L1	- 0.5 ; 1 ; 2	60	Direct	Pass				Clamp	
L1, L2	+0.5 ; 1 ; 2	60	Direct	Pass				Direct	
L1, L2	- 0.5 ; 1 ; 2	60	Direct	Pass				Clamp	
L1, PE	+0.5 ; 1 ; 2	60	Direct	Pass				Direct	
L1, PE	- 0.5 ; 1 ; 2	60	Direct	Pass				Clamp	
L1, L2, PE	+0.5 ; 1 ; 2	60	Direct	Pass				Direct	
L1, L2, PE	- 0.5 ; 1 ; 2	60	Direct	Pass				Clamp	
L2	+0.5 ; 1 ; 2	60	Direct	Pass				Direct	
L2	- 0.5 ; 1 ; 2	60	Direct	Pass				Clamp	
L2, PE	+0.5 ; 1 ; 2	60	Direct	Pass				Direct	
L2, PE	- 0.5 ; 1 ; 2	60	Direct	Pass				Clamp	
PE	+0.5 ; 1 ; 2	60	Direct	Pass				Direct	
PE	- 0.5 ; 1 ; 2	60	Direct	Pass				Clamp	
Remark: No error occurred.									

10.SURGE IMMUNITY TEST

10.1.Test Equipment

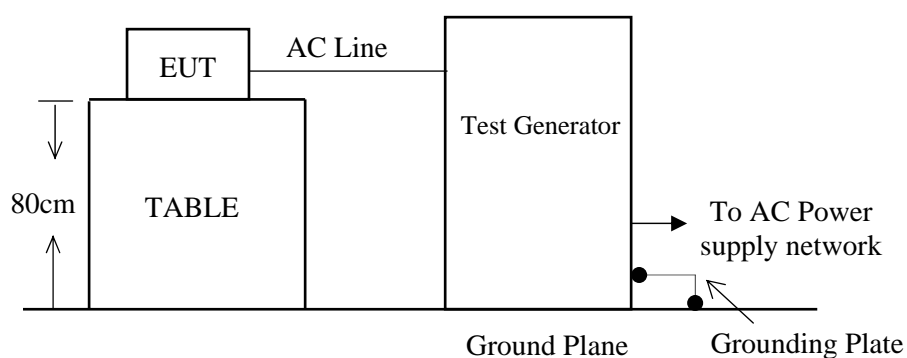
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Control Center	Keytek	E103	9506267	N/A	N/A
2.	Surge Combination Wave	Keytek	E501A	9506272	Jun.13, 07'	Jun.12, 08'
3.	Surge Coupler / Decoupler	Keytek	E4551	9506216	Jun.13, 07'	Jun.12, 08'

10.2.Block Diagram of Test Setup

10.2.1.Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

10.2.2.Test Setup



Remark: Test generator includes control center, surge combination and coupler.

10.3.Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-5/2005)

10.4.Severity Levels and Performance Criterion

Equipment and systems shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test levels of $\pm 0.5\text{kV}$, $\pm 1\text{kV}$ and $\pm 2\text{kV}$ for a.c. power lines(s) to ground and $\pm 0.5\text{kV}$ and $\pm 1\text{kV}$ for a.c. power lines(s).

10.5.EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

10.6.Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 10.2.

10.7. Test Procedure

- 10.7.1. Set up the EUT and test generator as shown on section 10.2.
- 10.7.2. For line to line coupling mode, provided a 0.5kV/1kV 1.2/50 μ s current surge (at open-circuit condition) and 8/20 μ s current surge to EUT selected points.
- 10.7.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate were conducted during test.
- 10.7.4. Different phase angles were done individually.
- 10.7.5. Repeat procedures 10.7.2 to 10.7.4 except the open-circuit test voltage change from 0.5kV/1kV/2kV for line to earth coupling mode test.
- 10.7.6. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

10.8. Test Results

PASSED.

EUT with following test modes were performed during this section testing and all the test results are listed in next page.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	D-Sub	H Pattern, 1280*1024/75Hz
2.		DVI	H Pattern, 1280*1024/60Hz
3.		AV IN	Color Bar Image
4.		S IN	Color Bar Image
5.		Component Video IN	Color Bar Image
6.		SDI IN	Color Bar Image
7.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz
8.		DVI	H Pattern, 1280*1024/60Hz
9.		AV IN	Color Bar Image
10.		S IN	Color Bar Image
11.		Component Video IN	Color Bar Image
12.		SDI IN	Color Bar Image

Surge Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date : 09/03/2007

<p><i>Applicant :</i> <u>DIVA Laboratories Ltd.</u></p> <p><i>EUT :</i> <u>LCD Monitor</u></p> <p><i>Power Supply :</i> <u>AC 230V, 50Hz (Via AC Adapter)</u></p> <p><i>Working Condition :</i> <u>See Section 3.5.</u></p>	<p><i>Test Date :</i> <u>Aug. 28, 2007</u></p> <p><i>Temperature :</i> <u>24</u></p> <p><i>Humidity :</i> <u>49 %</u></p> <p><i>Test Modes :</i> <u>Modes 1~12</u></p>				
Input And Output AC Power Port					
<i>Location</i>	<i>Polarity</i>	<i>Phase Angle</i>	<i>No of Pulse</i>	<i>Pulse Voltage (kV)</i>	<i>Results</i>
<i>L-N</i>	+	0	5	0.5kV, 1kV	Pass
	+	90	5	0.5kV, 1kV	Pass
	+	180	5	0.5kV, 1kV	Pass
	+	270	5	0.5kV, 1kV	Pass
	-	0	5	0.5kV, 1kV	Pass
	-	90	5	0.5kV, 1kV	Pass
	-	180	5	0.5kV, 1kV	Pass
	-	270	5	0.5kV, 1kV	Pass
<i>L-PE</i>	+	0	5	0.5kV, 1kV, 2kV	Pass
	+	90	5	0.5kV, 1kV, 2kV	Pass
	+	180	5	0.5kV, 1kV, 2kV	Pass
	+	270	5	0.5kV, 1kV, 2kV	Pass
	-	0	5	0.5kV, 1kV, 2kV	Pass
	-	90	5	0.5kV, 1kV, 2kV	Pass
	-	180	5	0.5kV, 1kV, 2kV	Pass
	-	270	5	0.5kV, 1kV, 2kV	Pass
<i>N-PE</i>	+	0	5	0.5kV, 1kV, 2kV	Pass
	+	90	5	0.5kV, 1kV, 2kV	Pass
	+	180	5	0.5kV, 1kV, 2kV	Pass
	+	270	5	0.5kV, 1kV, 2kV	Pass
	-	0	5	0.5kV, 1kV, 2kV	Pass
	-	90	5	0.5kV, 1kV, 2kV	Pass
	-	180	5	0.5kV, 1kV, 2kV	Pass
	-	270	5	0.5kV, 1kV, 2kV	Pass
<i>L, N-PE</i>	+	0	5	0.5kV, 1kV, 2kV	Pass
	+	90	5	0.5kV, 1kV, 2kV	Pass
	+	180	5	0.5kV, 1kV, 2kV	Pass
	+	270	5	0.5kV, 1kV, 2kV	Pass
	-	0	5	0.5kV, 1kV, 2kV	Pass
	-	90	5	0.5kV, 1kV, 2kV	Pass
	-	180	5	0.5kV, 1kV, 2kV	Pass
	-	270	5	0.5kV, 1kV, 2kV	Pass
<p><i>Remark: No error occurred.</i></p>					

11. CONDUCTED DISTURBANCE IMMUNITY TEST

11.1. Test Equipment

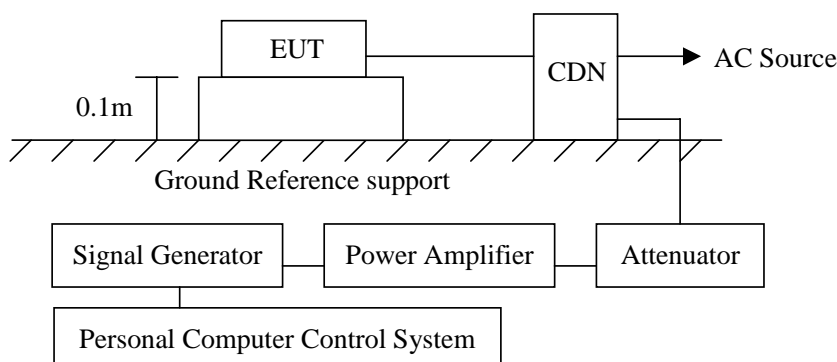
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Signal Generator	Rohde & Schwarz	SML03	103251	May 04, 07'	May 03, 08'
2.	Power Amplifier	A & R	25A250A	18199	N/A	N/A
3.	Power Meter	HP	436A	2236A13620	Oct.29, 06'	Oct.28, 07'
4.	Power Sensor	HP	8482B	3318A05483	Oct.30, 06'	Oct.29, 07'
5.	Attenuator	Weinschel	40-6-34	LJ093	Aug.10, 07'	Aug.10, 08'
6.	CDN-M3	Fischer	FCC-801-M3-25A	9961	Mar.03, 07'	Mar.02, 08'
7.	EM Injection Clamp	Fischer	F-203I-23MM	332	May 25, 07'	May 24, 08'

11.2. Block Diagram of Test Setup

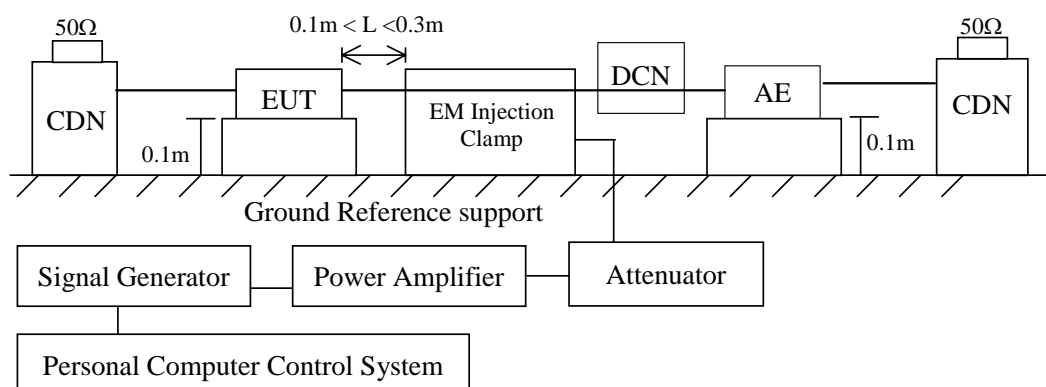
11.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

11.2.2. Common Mode Test Setup



11.2.3. EM Clamp Mode Test Setup



11.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-6/2006)

11.4. Severity Levels and Performance Criterion

Equipment and systems that are not life-supporting equipment, except as specified in EN 60601-1-2 section 36.202.6 a) 3), 4) and 5), shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at an immunity test level of 3Vrms over the frequency range 150kHz to 80MHz.

11.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

11.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 11.2.

11.7. Test Procedure

**** For AC Power Line ****

11.7.1. Set up the EUT, CDN and test generators as shown on section 11.2.2.

11.7.2. The EUT and supporting equipment were placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) was placed on the ground plane making contact with it at about 0.1-0.3m from EUT. Cables between CDN and EUT were as short as possible.

11.7.3. The disturbance signal described below was injected to EUT through CDN.

11.7.4. The EUT operates within its operational mode(s) under intended climatic conditions after power on.

11.7.5. The frequency range was swept from 150kHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.

11.7.6. The rate of sweep shall not exceed 1.5×10^3 decades/s. Where the frequency was swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

11.7.7. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

**** For Telecommunication Port ****

- 11.7.8. Set up the EUT, EM Injection Clamp and test generators as shown on section 11.2.3.
- 11.7.9. The EUT and supporting equipment were placed on an insulating support 0.1m high above a ground reference plane. EM Injection Clamp (coupling and decoupling device) was placed on the ground plane making contact with it at about 0.1-0.3m from EUT. Cables between EM Injection Clamp and EUT were as short as possible.
- 11.7.10. The DCN was placed on between AE and EUT. The EUT and AE of power through CDN, CDN terminated with 50Ω at the RF disturbance input port.
- 11.7.11. The disturbance signal described below was injected to EUT through EM Injection Clamp.
- 11.7.12. Repeat above procedure from 11.7.4. to 11.7.7.

11.8. Test Results

PASSED.

EUT with following test modes were performed during this section testing and all the test results are listed in next page.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	D-Sub	H Pattern, 1280*1024/75Hz
2.		DVI	H Pattern, 1280*1024/60Hz
3.		AV IN	Color Bar Image
4.		S IN	Color Bar Image
5.		Component Video IN	Color Bar Image
6.		SDI IN	Color Bar Image
7.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz
8.		DVI	H Pattern, 1280*1024/60Hz
9.		AV IN	Color Bar Image
10.		S IN	Color Bar Image
11.		Component Video IN	Color Bar Image
12.		SDI IN	Color Bar Image

Conducted Disturbance Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date : 09/03/2007

Applicant : <u>DIVA Laboratories Ltd.</u> EUT : <u>LCD Monitor</u> Power Supply : <u>AC 230V, 50Hz (Via AC Adapter)</u> Working Condition : <u>See Section 3.5.</u>		Test Date : <u>Aug. 29, 2007</u> Temperature : <u>29</u> Humidity : <u>45 %</u> Test Modes : <u>Modes 1~12</u>	
Frequency Range (MHz)	Injected Position	Strength	Results
0.15MHz ~ 80MHz	Main (AC Power Line)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (SDI Cable to 75Ω Impedance)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (DVI Cable to PC)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (D-Sub Cable to PC)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (RS232 Cable to PC)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (S-Video Cable to DVD)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (SDI Cable to Signal Generator)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (S-Video Cable to Color Video Monitor)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (Video Cable*2 to Color Video Monitor)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O (Component Cable*3 to Color Video Monitor)	3V(rms) Modulated	Pass
0.15MHz ~ 80MHz	I/O [BNC Cable (Video Cable*2 + Component Cable*3) to DVD]	3V(rms) Modulated	Pass
Remark: 1. No error occurred. 2. Modulation Signal: 1kHz 80% AM.			

12. POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

12.1. Test Equipment

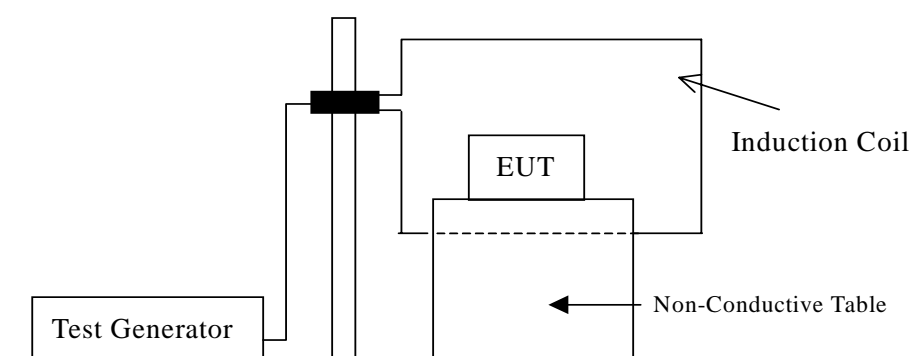
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Magnetic Field	Hafely	MAG 100.1	080015-01	Nov.28, 06'	Nov.27, 07'

12.2. Block Diagram of Test Setup

12.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

12.2.2. Test Setup



12.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-8/2001)

12.4. Severity Levels and Performance Criterion

Equipment and systems shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test level of 3 A/m.

12.5. EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

12.6. Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 12.2.

12.7. Test Procedure

The EUT placed on 1m high table that above the ground reference plane which the min. size 1m x 1m and 0.65mm thickness metallic. And subjected to the test magnetic field by using the induction coil of standard dimensions (1m x 1m). The induction coil rotated by 90 degrees in order to expose the EUT to the test field with different orientations. All cables of EUT exposed to magnetic field for 1m of their length.

12.8. Test Results

PASSED.

EUT with following test modes were performed during this section testing and all the test results are listed in next pages.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	D-Sub	H Pattern, 1280*1024/75Hz
2.		DVI	H Pattern, 1280*1024/60Hz
3.		AV IN	Color Bar Image
4.		S IN	Color Bar Image
5.		Component Video IN	Color Bar Image
6.		SDI IN	Color Bar Image
7.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz
8.		DVI	H Pattern, 1280*1024/60Hz
9.		AV IN	Color Bar Image
10.		S IN	Color Bar Image
11.		Component Video IN	Color Bar Image
12.		SDI IN	Color Bar Image

Power Frequency Magnetic Field Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date : 09/03/2007

<i>Applicant :</i> <u>DIVA Laboratories Ltd.</u>		<i>Test Date :</i> <u>Aug. 28, 2007</u>	
<i>EUT :</i> <u>LCD Monitor</u>		<i>Temperature :</i> <u>24</u>	
<i>Power Supply :</i> <u>AC 230V, 50Hz (Via AC Adapter)</u>		<i>Humidity :</i> <u>49 %</u>	
<i>Working Condition :</i> <u>See Section 3.5.</u>		<i>Test Modes :</i> <u>Modes 1~12</u>	
<i>Power Frequency Magnetic Field</i>	<i>Testing Duration</i>	<i>Coil Orientation</i>	<i>Results</i>
50Hz/60Hz, 3 A/m	1 Min	X-axis	Pass
50Hz/60Hz, 3 A/m	1 Min	Y-axis	Pass
50Hz/60Hz, 3 A/m	1 Min	Z-axis	Pass
<i>Remark: No error occurred.</i>			

13. VOLTAGE DIPS AND INTERRUPTIONS IMMUNITY TEST

13.1. Test Equipment

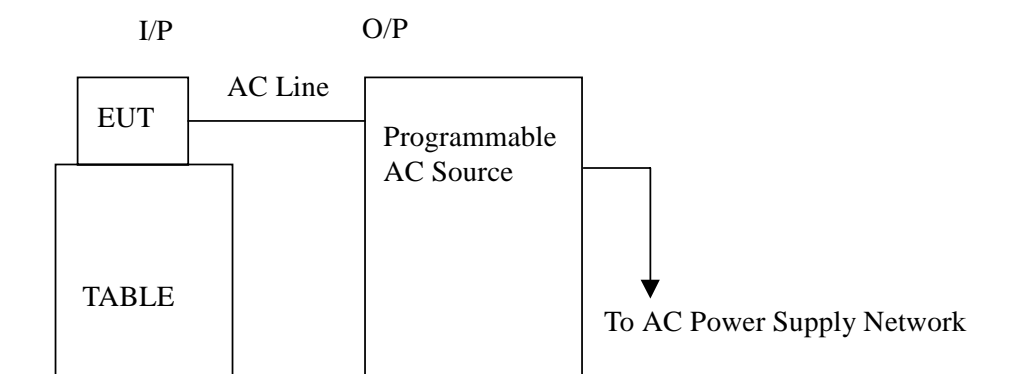
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Programmable Power Source	Chroma	6590	65900086	Apr.09, 07'	Apr.08, 08'

13.2. Block Diagram of Test Setup

13.2.1. Block Diagram of connection between EUT and simulators.

Same as Section 8.2.1.

13.2.2. Test Setup



13.3. Test Standard

EN 60601-1-2/2001+A1/2006 (IEC 61000-4-8/2001)

13.4. Severity Levels and Performance Criterion

13.4.1. Equipment and systems with a rated input power of 1 kVA or less shall comply with the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test levels specified in following table.

Immunity Test Level for Voltage Dips

Voltage Test level $\% U_T$	Voltage dip $\% U_T$	Duration periods
<5	>95	0.5
40	60	5
70	30	25
NOTE U_T is the a.c. mains voltage prior to application of the test level		

13.4.2. Equipment and systems are allowed a deviation from the requirements of EN 60601-1-2 section 36.202.1 j) at immunity test level specified in following table.

Immunity Test Level for Voltage Interruption		
Voltage Test level % U_T	Voltage dip % U_T	Duration s
<5	>95	0.5
NOTE U_T is the a.c. mains voltage prior to application of the test level		

13.5.EUT's Configuration during Compliance Measurement

The configuration of EUT is listed in section 6.4.

13.6.Operating Condition of EUT

Same as conducted measurement which is listed in 3.5. except the test set up replaced by section 13.2.

13.7.Test Procedure

13.7.1.Set up the EUT and test generator as shown on section 13.2.

13.7.2.The interruptions was introduced at selected phase angles with specified duration. There was a 10s minimum interval between each test event.

13.7.3.After each test a full functional check was performed before the next test.

13.7.4.Repeat procedures 13.7.2. & 13.7.3. for voltage dips, only the test level and duration was changed.

13.7.5.Record any degradation of performance.

13.8. Test Results

PASSED.

Two kinds of EUT with following test modes were performed during this section testing and all the test results are listed in next pages.

The details of test modes are as follows :

Mode	AC Adapter	Input	Display, Resolution/ Frequency
1.	AULT, M/N MW116	D-Sub	H Pattern, 1280*1024/75Hz
2.		DVI	H Pattern, 1280*1024/60Hz
3.		AV IN	Color Bar Image
4.		S IN	Color Bar Image
5.		Component Video IN	Color Bar Image
6.		SDI IN	Color Bar Image
7.	LE, M/N LE-0312B130W	D-Sub	H Pattern, 1280*1024/75Hz
8.		DVI	H Pattern, 1280*1024/60Hz
9.		AV IN	Color Bar Image
10.		S IN	Color Bar Image
11.		Component Video IN	Color Bar Image
12.		SDI IN	Color Bar Image

Voltage Dips And Interruptions Immunity Test Results

AUDIX TECHNOLOGY CORPORATION

Date : 09/03/2007

Applicant : <u>DIVA Laboratories Ltd.</u>			Test Date : <u>Aug. 28, 2007</u>		
EUT : <u>LCD Monitor</u>			Temperature : <u>24</u>		
Power Supply : <u>AC 100-240V, 50Hz (Via AC Adapter)</u>			Humidity : <u>49 %</u>		
Working Condition : <u>See Section 3.5.</u>			Test Modes : <u>Modes 1~12</u>		
Single Test Voltage					
Type of Test	Test Voltage	Phase Angle	% Reduction	Period	Results
Voltage Dips	100/230	0	> 95 %	10	Pass
		45	> 95 %	10	Pass
		90	> 95 %	10	Pass
		135	> 95 %	10	Pass
		180	> 95 %	10	Pass
		225	> 95 %	10	Pass
		270	> 95 %	10	Pass
		315	> 95 %	10	Pass
Voltage Dips	100/230	0	60 %	100	Pass
		45	60 %	100	Pass
		90	60 %	100	Pass
		135	60 %	100	Pass
		180	60 %	100	Pass
		225	60 %	100	Pass
		270	60 %	100	Pass
		315	60 %	100	Pass
	100/230	0	30 %	500	Pass
		45	30 %	500	Pass
		90	30 %	500	Pass
		135	30 %	500	Pass
		180	30 %	500	Pass
		225	30 %	500	Pass
		270	30 %	500	Pass
		315	30 %	500	Pass
Voltage Interruption	100/230	0	> 95 %	5000	Pass, Note
		45	> 95 %	5000	Pass, Note
		90	> 95 %	5000	Pass, Note
		135	> 95 %	5000	Pass, Note
		180	> 95 %	5000	Pass, Note
		225	> 95 %	5000	Pass, Note
		270	> 95 %	5000	Pass, Note
		315	> 95 %	5000	Pass, Note
Note: The EUT stopped operating temporarily during the voltage Interruption > 95 % test, but it's self-recoverable after testing.					

14. PHOTOGRAPHS

14.1. Photos of Conducted Disturbance Measurement

Test Mode: EUT with AULT AC Adapter (M/N MW116)



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

14.2. Photos of Radiated Disturbance Measurement at Semi-Anechoic Chamber

Test Mode: EUT with AULT AC Adapter (M/N MW116)



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



FRONT VIEW OF RADIATED MEASUREMENT



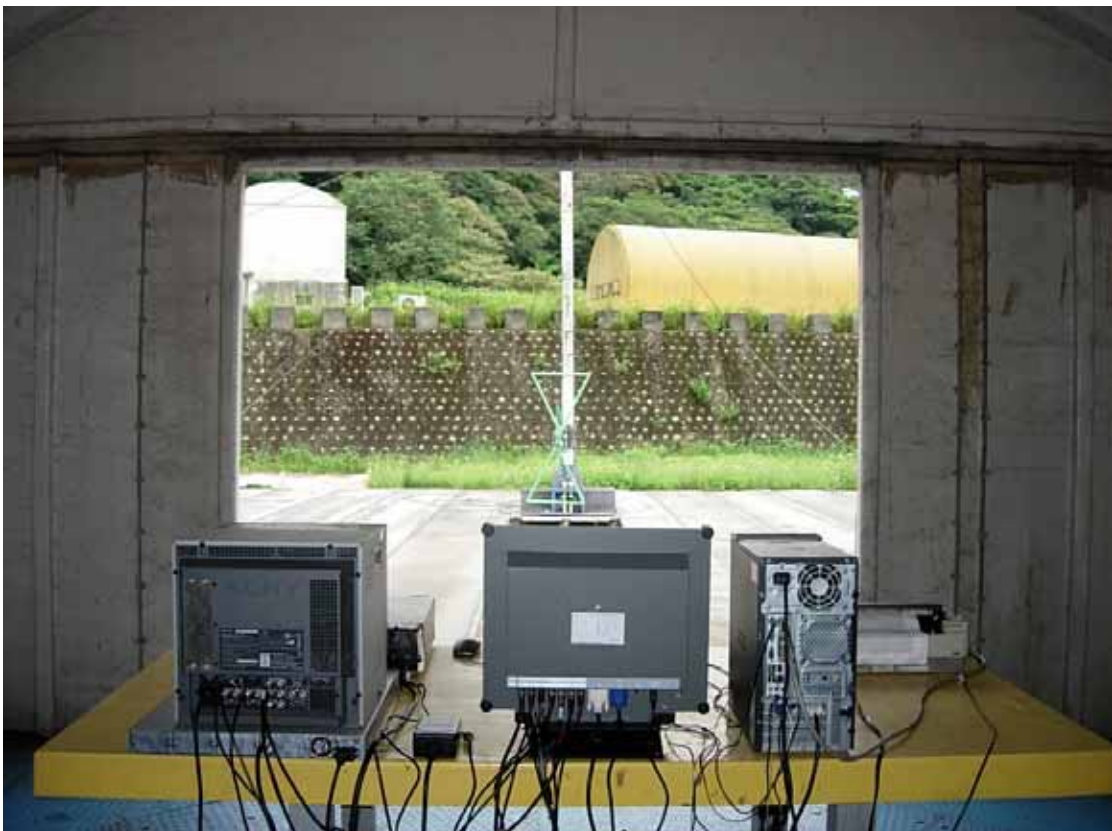
BACK VIEW OF RADIATED MEASUREMENT

14.3.Photos of Radiated Disturbance Measurement at Open Area Test Site

Test Mode: EUT with AULT AC Adapter (M/N MW116),
D-Sub Input, H Pattern, 1280*1024/75Hz



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W),
D-Sub Input, H Pattern, 1280*1024/75Hz



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT



SETUP WITH MAXIMUM DETECTED EMISSION AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION AT VERTICAL POLARIZATION

14.4.Photos of Discontinuous Disturbance Emission Measurement

Test Mode: EUT with AULT AC Adapter (M/N MW116)



FRONT VIEW



BACK VIEW

Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



FRONT VIEW



BACK VIEW

14.5.Photos of Harmonic and Voltage Fluctuations/Flicker Emission Measurement

Test Mode: EUT with AULT AC Adapter (M/N MW116)



Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



14.6.Photos of Electrostatic Discharge Immunity Test

Test Mode: EUT with AULT AC Adapter (M/N MW116)



Air & Contact Discharge



VCP Discharge

Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



Air & Contact Discharge



VCP Discharge

Photo of ESD Test Points (Front View)



Photo of ESD Test Points (Back View)



Photo of ESD Test Points (I/O Ports)



14.7.Photos of RF Field Strength Immunity Test

Test Mode: EUT with AULT AC Adapter (M/N MW116)

Frequency Range: 80-1000MHz



FRONT VIEW OF R/S TEST



BACK VIEW OF R/S TEST

Test Mode: EUT with AULT AC Adapter (M/N MW116)
Frequency Range: 1~2.5GHz



FRONT VIEW OF R/S TEST



BACK VIEW OF R/S TEST

Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)
Frequency Range: 80-1000MHz



FRONT VIEW OF R/S TEST

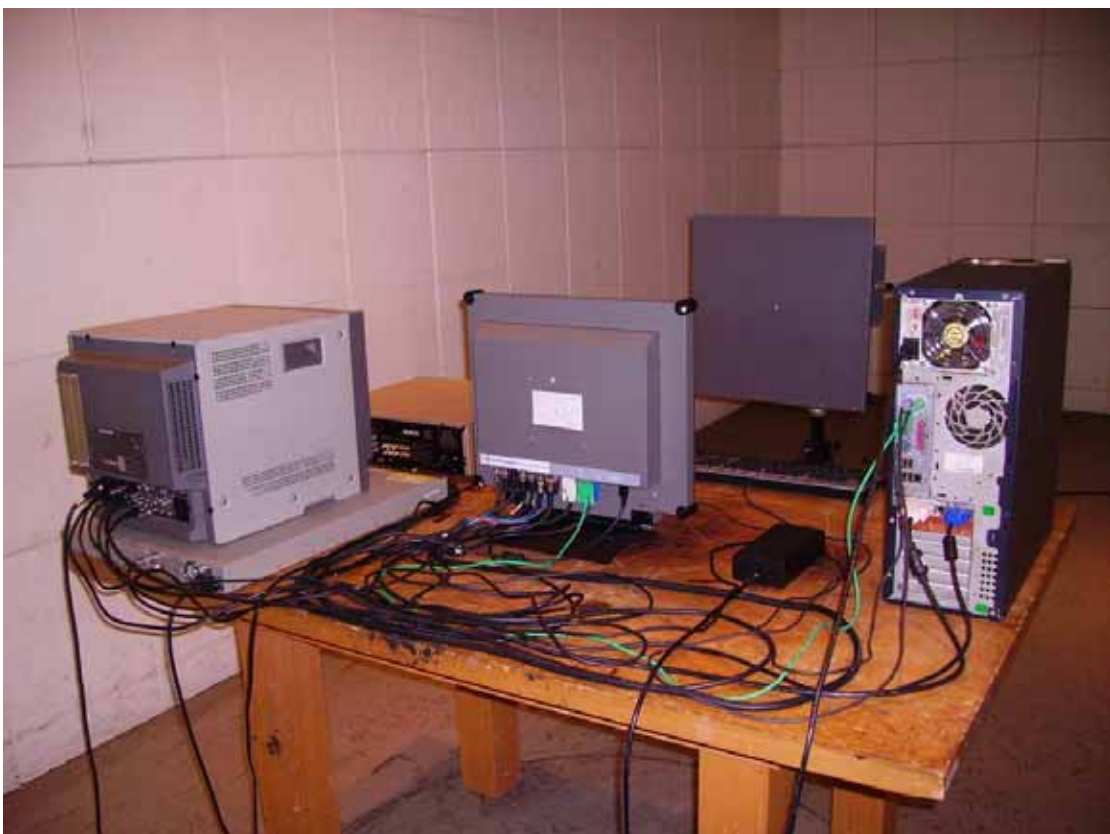


BACK VIEW OF R/S TEST

Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)
Frequency Range: 1~2.5GHz



FRONT VIEW OF R/S TEST



BACK VIEW OF R/S TEST

14.8.Photos of Electrical Fast Transient/Burst Immunity Test

Test Mode: EUT with AULT AC Adapter (M/N MW116)



Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



14.9.Photos of Surge Immunity Test

Test Mode: EUT with AULT AC Adapter (M/N MW116)



Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



14.10.Photos of Conducted Disturbance Immunity Test

Test Mode: EUT with AULT AC Adapter (M/N MW116)

Injection Position: Power Supply Line



Injection Position: I/O Cable



Test Mode: EUT with AULT AC Adapter (M/N MW116)
Injection Position: I/O Cable (EUT SDI Out)



Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)
Injection Position: Power Supply Line



Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)
Injection Position: I/O Cable



Injection Position: I/O Cable (EUT SDI Out)



14.11.Photos of Power Frequency Magnetic Field Immunity Test

Test Mode: EUT with AULT AC Adapter (M/N MW116)



Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



14.12.Photos of Voltage Dips and Interruptions Immunity Test

Test Mode: EUT with AULT AC Adapter (M/N MW116)



Test Mode: EUT with LINE Electronics AC Adapter (M/N LE-0312B130W)



APPENDIX

(Photos of EUT)

Total Pages: 21 Pages

Figure 1
General Appearance (Front View)



Figure 2
General Appearance (Front & Side View)



Figure 3
General Appearance (Rear View)



Figure 4
General Appearance (Rear & Side View)



Figure 5
General Appearance (Bottom View)



Figure 6
Appearance (I/O Ports)



Figure 7
Internal View (Removed Back Cover)



Figure 8
Internal View



Figure 9
Internal View (Removed Main Board & Power Board)



Figure 10
Internal View (Power Board/Component View)



Figure 11
Internal View (Power Board/Foil View)

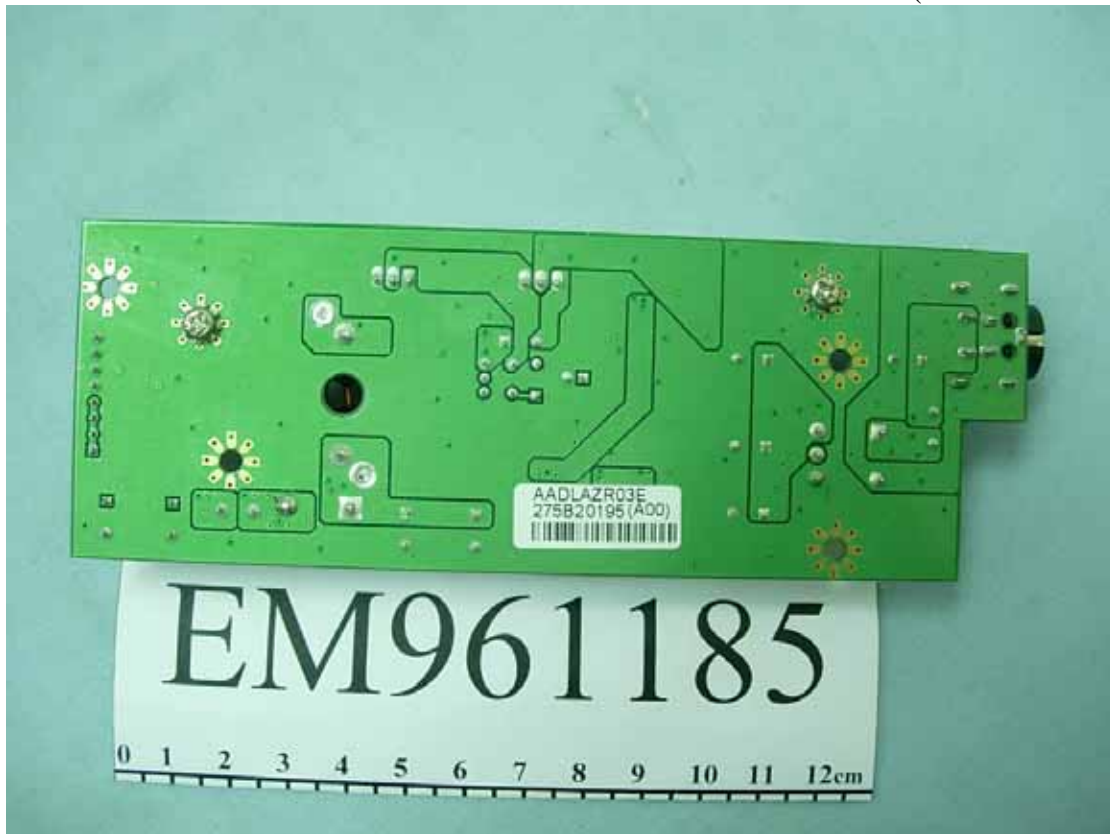


Figure 12
Internal View (Main Board/Component View)



Figure 13
Internal View (Main Board/Foil View)



Figure 14
Internal View (Inverter Board/Component View)

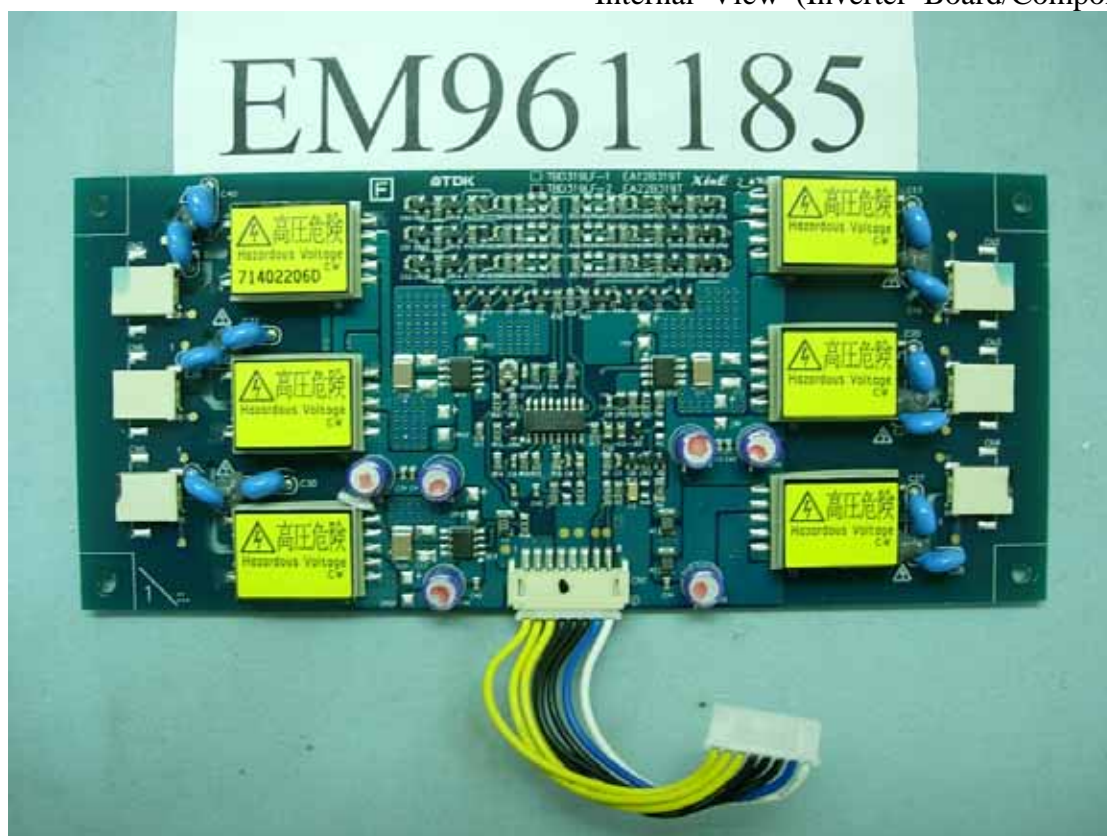


Figure 15
Internal View (Inverter Board/Foil View)

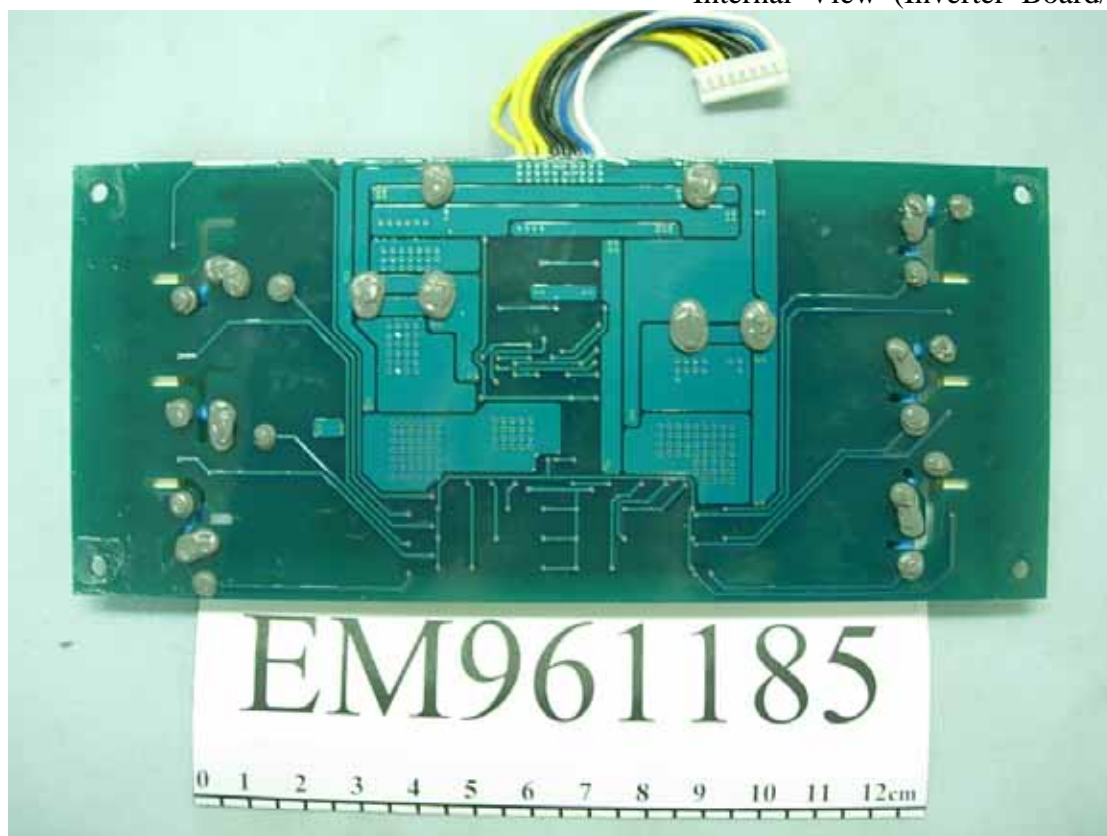


Figure 16
Internal View (LCD Panel, Removed Metal Cover)



Figure 17
Internal View (LCD Panel/Rear View)



Figure 18
Internal View (Function Control Board/Component View)



Figure 19
Internal View (Function Control Board/Foil View)

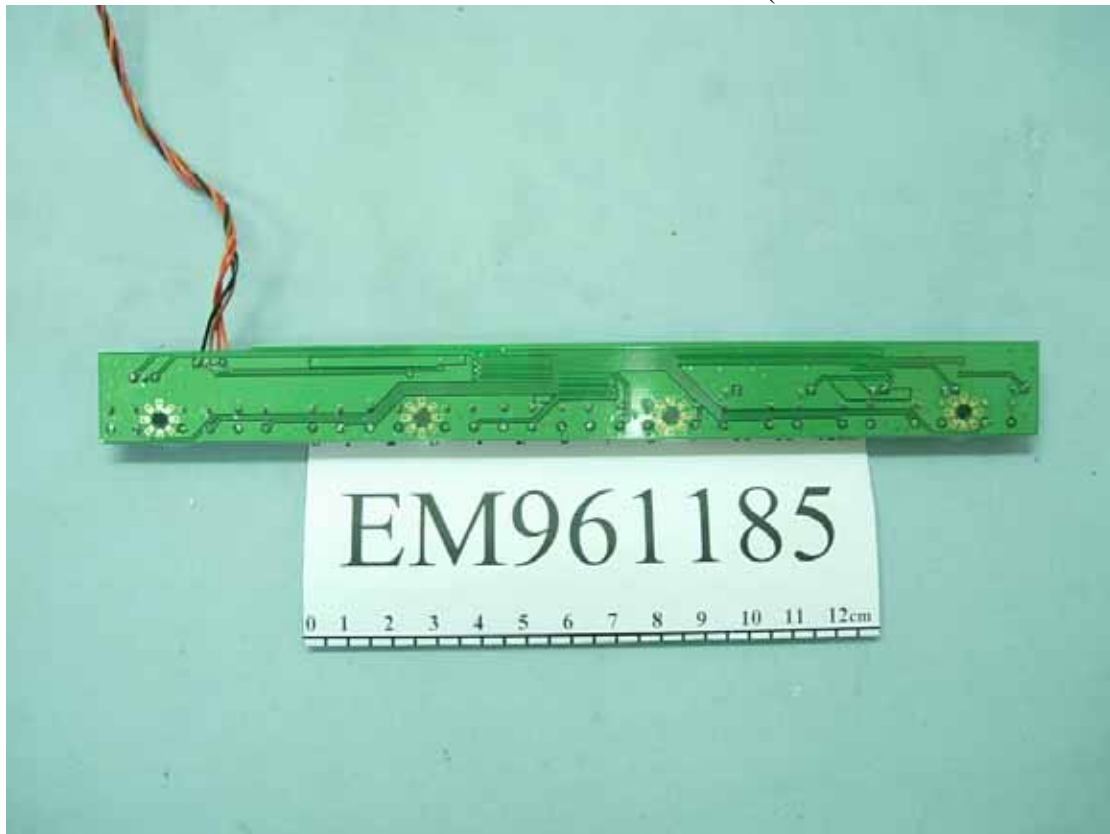


Figure 20
Internal View (LCD Panel Label View)



Figure 21
Internal View (Control Board of LCD Panel/Component View)



Figure 22
Internal View (Control Board of LCD Panel/Foil View)



Figure 23
Internal View (Control Board of LCD Panel/Component View)



Figure 24
Internal View (Control Board of LCD Panel/Foil View)



Figure 25
D-Sub Data Cable



Figure 26
DVI Data Cable



Figure 27
BNC Data Cable



Figure 28
AC Adapter :AULT, M/N MW116
General Appearance (Front & Side View)



Figure 29
AC Adapter :AULT, M/N MW116
General Appearance (Rear & Side View)



Figure 30
AC Adapter :AULT, M/N MW116
General Appearance (Label View)



Figure 31
AC Adapter :AULT, M/N MW116
Internal View (Removed Covers)

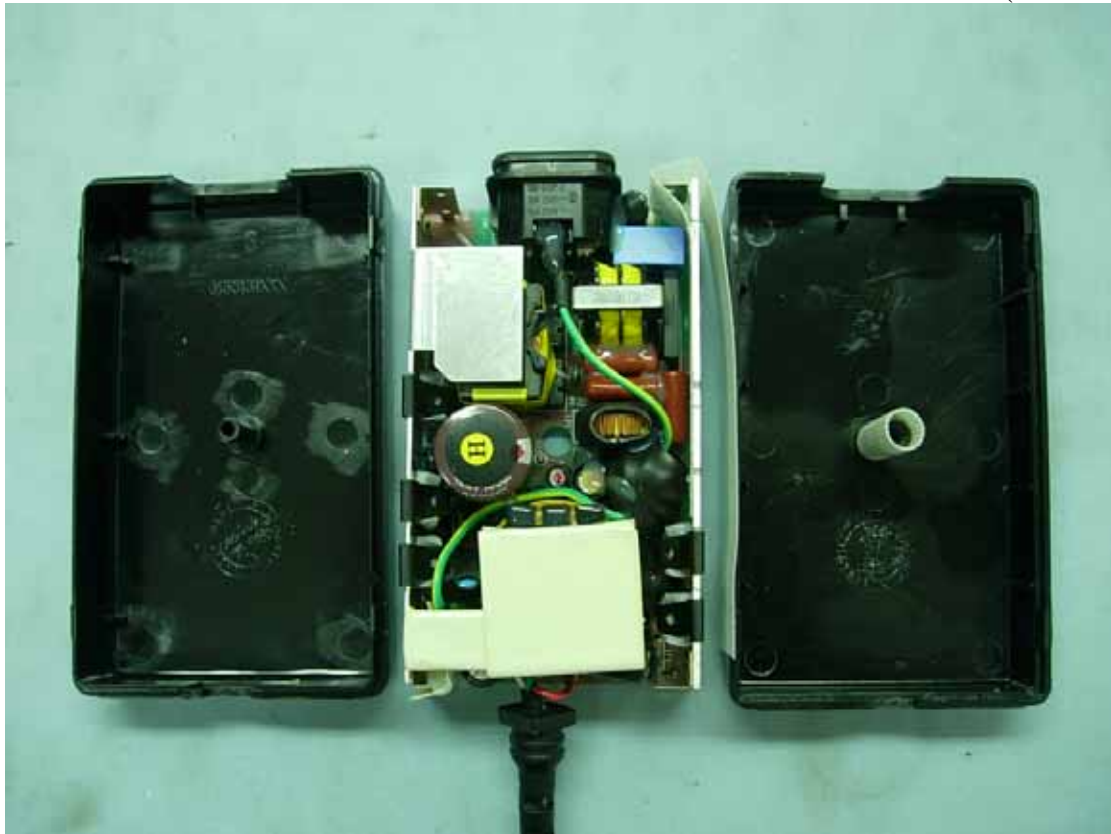


Figure 32
AC Adapter :AULT, M/N MW116
Internal View (PCB/Component View)



Figure 33
AC Adapter :AULT, M/N MW116
Internal View (PCB/Foil View)

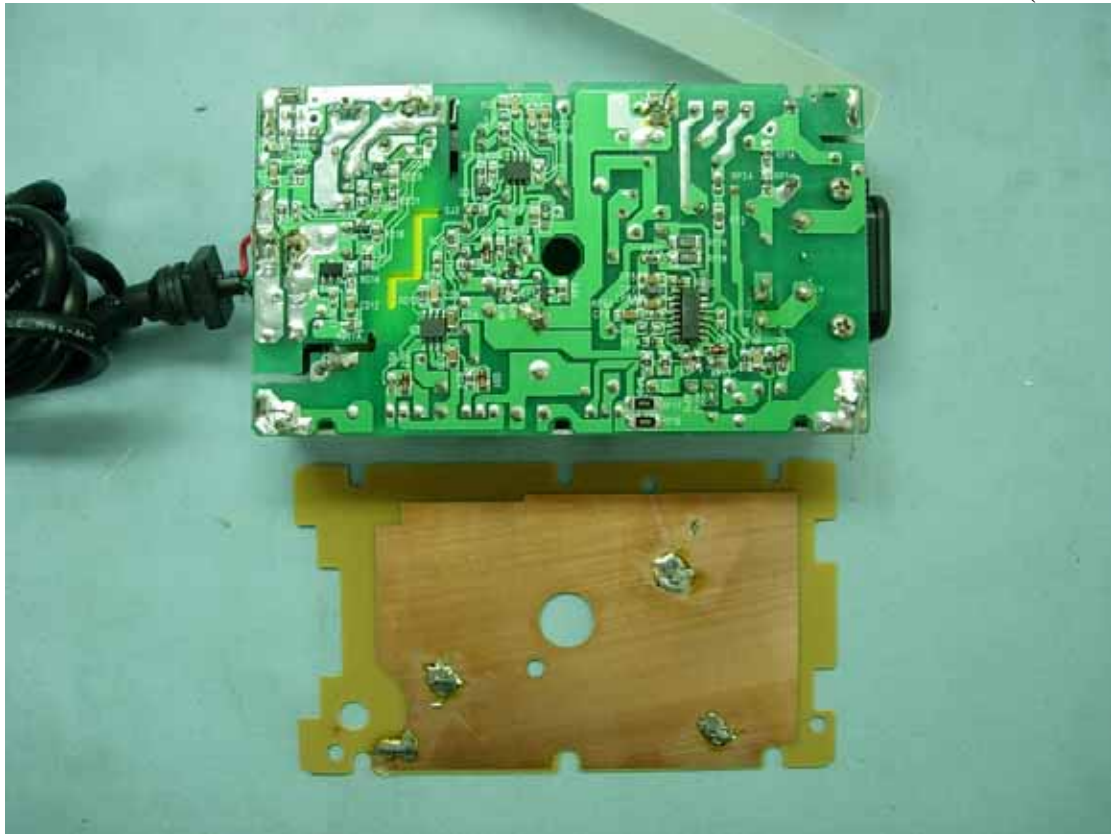


Figure 34
AC Adapter : LINE Electronics, M/N LE-0312B130W
General Appearance (Front & Side View)



Figure 35
AC Adapter : LINE Electronics, M/N LE-0312B130W
General Appearance (Rear & Side View)



Figure 36
AC Adapter : LINE Electronics, M/N LE-0312B130W
General Appearance (Label View)



Figure 37
AC Adapter : LINE Electronics, M/N LE-0312B130W
Internal View (Removed Covers)



Figure 38
AC Adapter : LINE Electronics, M/N LE-0312B130W
Internal View (Removed Shielding Cover)



Figure 39
AC Adapter : LINE Electronics, M/N LE-0312B130W
Internal View (PCB/Component View)

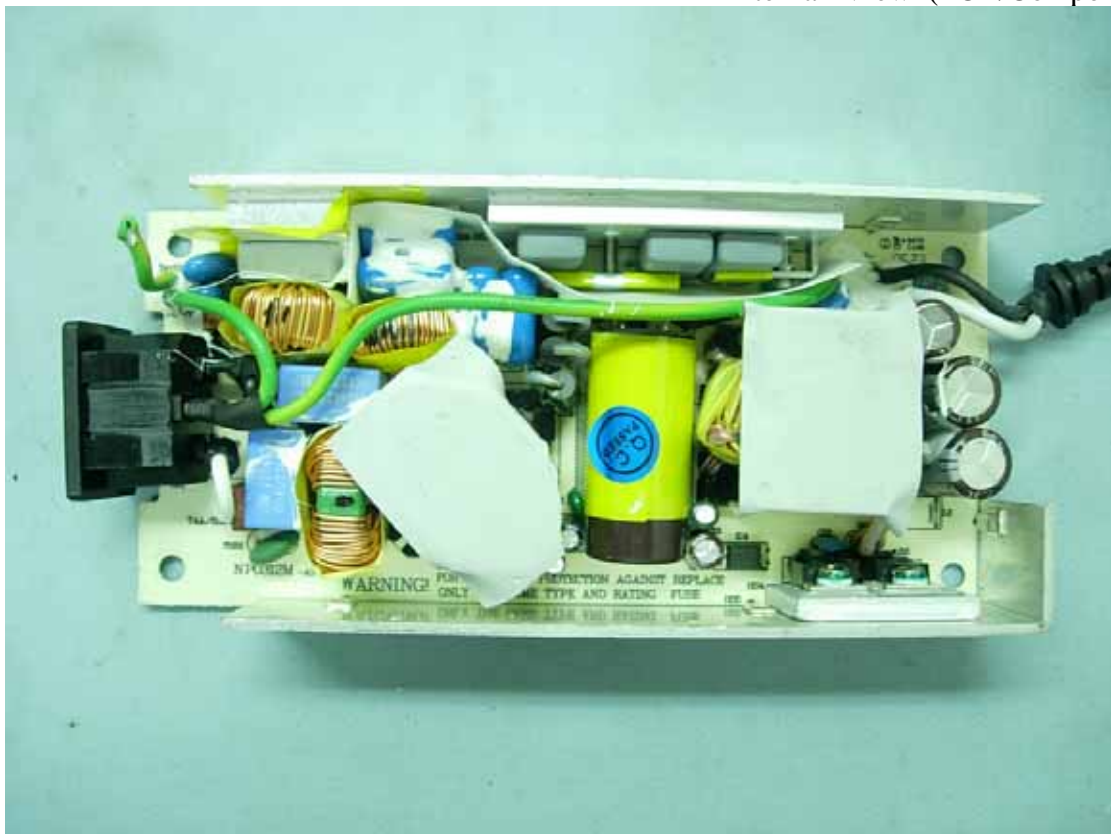


Figure 40
AC Adapter : LINE Electronics, M/N LE-0312B130W
Internal View (PCB/Foil View)

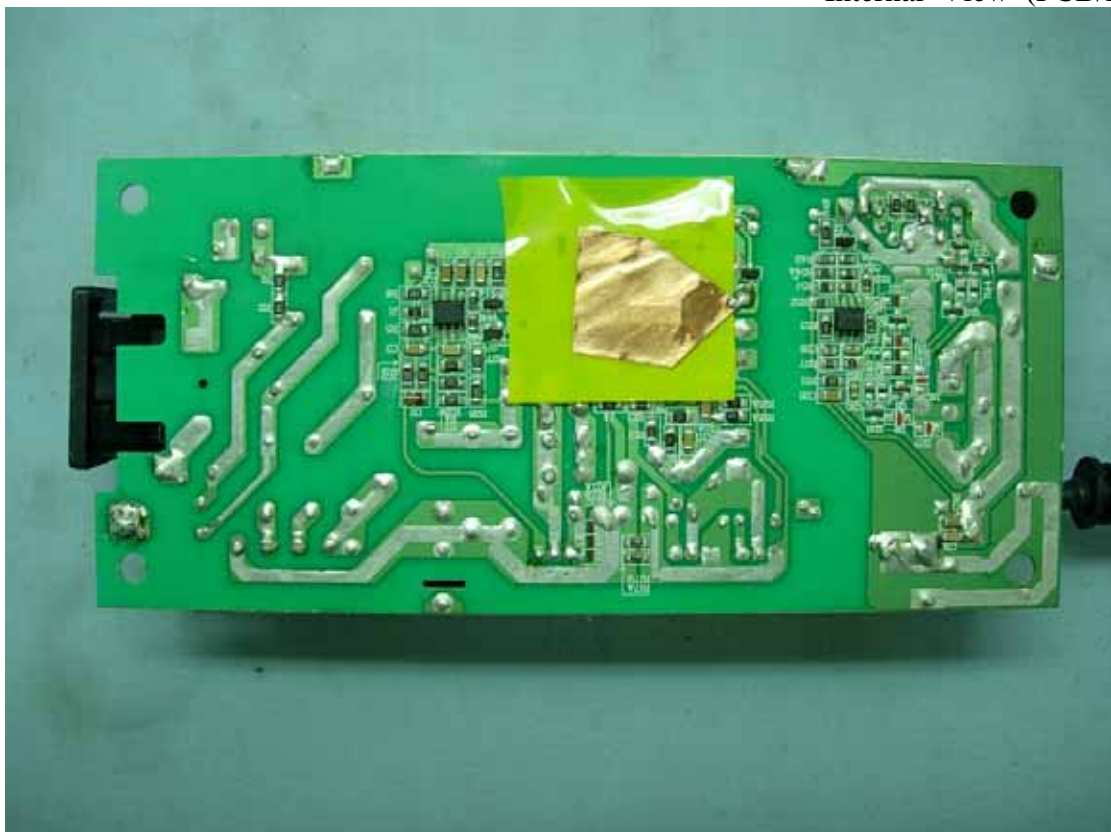


Figure 41
AC Adapter : LINE Electronics, M/N LE-0312B130W
Internal View (PCB/Foil View)

